PUBLICATION NO. 980673-013

1260-17
80-CHANNEL SPDT
MATRIX MODULE

1260 VXI
SWITCHING CARD

RACAL INSTRUMENTS

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The warranty period for all Racal Instruments hardware is one year, except software and firmware products designated for use with Racal Instruments hardware are warranted not to fail to execute their programming instructions due to defect in materials or workmanship for a period of ninety (90) days from the date of delivery to the initial end user.

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Products returned to Racal Instruments for repair during the warranty period must have a Return Material Authorization (RMA) number and shall be shipped prepaid. Within the United States the RMA number can be obtained by calling Customer Service at 1-800-722-3262.

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FOR YOUR SAFETY

Before undertaking any troubleshooting, maintenance or exploratory procedure, read carefully the **WARNING** and **CAUTION** notices.

This equipment contains voltage hazardous to human life and safety, and is capable of inflicting personal injury.

If this instrument is to be powered from the AC line (mains) through an autotransformer, ensure the common connector is connected to the neutral (earthed pole) of the power supply.

Before operating the unit, ensure the conductor (green wire) is connected to the ground (earth) conductor of the power outlet. Do not use a two-conductor extension cord or a three-prong/two-prong adaptor. This will defeat the protective feature of the third conductor in the power cord.

Maintenance and calibration procedures sometimes call for operation of the unit with power applied and protective covers removed. Read the procedures and heed warnings to avoid "live" circuit points.

Before operating this instrument:

1. Ensure the instrument is configured to operate on the voltage at the power source. See Installation Section.

2. Ensure the proper fuse is in place for the power source to operate.

3. Ensure all other devices connected to or in proximity to this instrument are properly grounded or connected to the protective third-wire earth ground.

If the instrument:

- fails to operate satisfactorily
- shows visible damage
- has been stored under unfavorable conditions
- has sustained stress

Do not operate until performance is checked by qualified personnel.

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1.0 1260-17 Module Specifications

The 1260-17 80-Channel SPDT Switch Module is a high density multipurpose switch card. It switches single lines per channel. Each channel is available at the modules front panel as either a normally open (NO) or normally closed (NC) path. A block diagram of the module is shown in Figure 3-1.

Specifications

User Connector	64-Pin (2 Row) IDC Quick Disconnect User connector is included with the 1260-17. *
Maximum Switchable Voltage (Terminal-Terminal or Terminal Chassis)	250 VDC, 250 VAC RMS
Maximum Switchable Current Per Channel	1 ADC, 1 A RMS
Maximum Switchable Power Per Channel	30 WDC, 62.5 VA AC
Path Resistance	< 0.5 ohm
DC Isolation COM-NO	> 7.5×10^8 ohms
Bandwidth (50 ohm termination)	> 10 MHz
Insertion Loss (50 ohm termination)	< .1 dB to 100 KHz < .5 dB to 1 MHz < 1 dB to 10 MHz (typical)
Crosstalk (50 ohm termination)	< -45 dB to 100 KHz < -40 dB to 1 MHz < -35 dB to 10 MHz
Isolation (50 ohm termination)	< -30 dB to 10 MHz

Switching Time	2ms
Minimum Option 01 Firmware Revision	16.1

* A crimp connector kit is also available for this module (P/N 404975-003). A strain relief option can be ordered separately for this crimp connector kit.

3.0 1260-17 Module Specific Syntax

The Module Specific Syntax for the 1260-17 is required in the use of the OPEN and CLOSE commands. It will also appear in data output by the Master in response to the PDATAOUT and PSETUP commands.

3.1 Syntax

3.1.1 The Module Specific Syntax for the 1260-17 Signal Multiplexer/Scanner module is as follows:

<module address>.<channel number>

where <module address> is the address.

<channel number> is the reference number of the channel to be closed, value 0 - 79.

NOTE

The <module address> used here is not the VXIbus defined logical address of the 1260 Series Master. It is peculiar to the 1260 Series and describes the switching module in relation to the Master. This address corresponds to the binary value of the switch setting of SW1 on the switching module PCB.

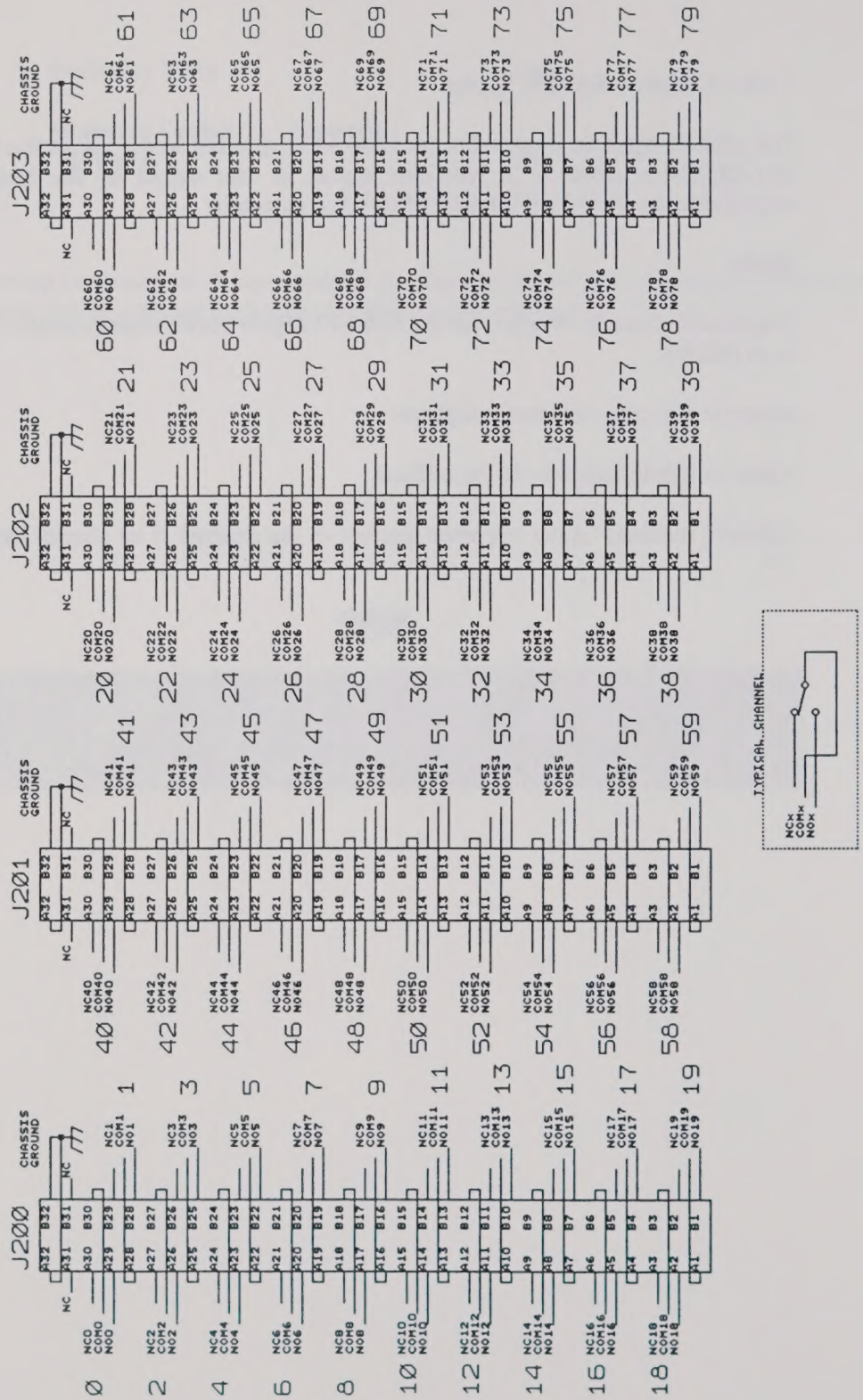


Figure 3-1, 1260-17 Block Diagram

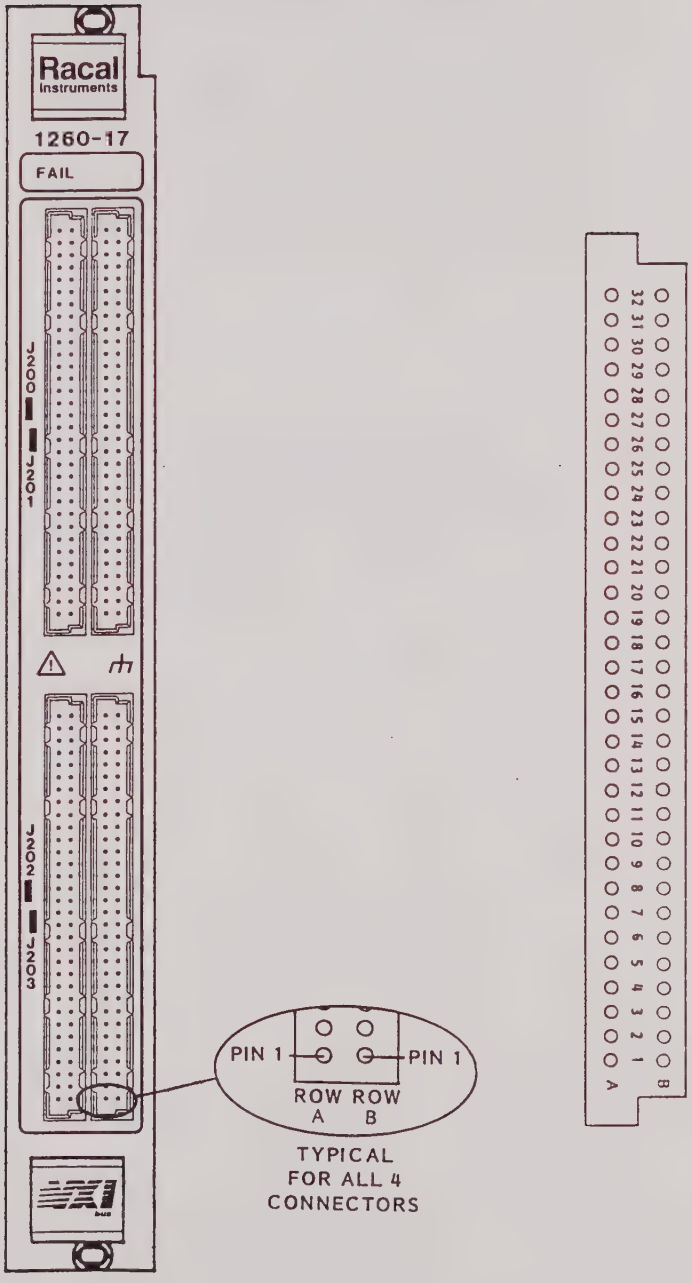


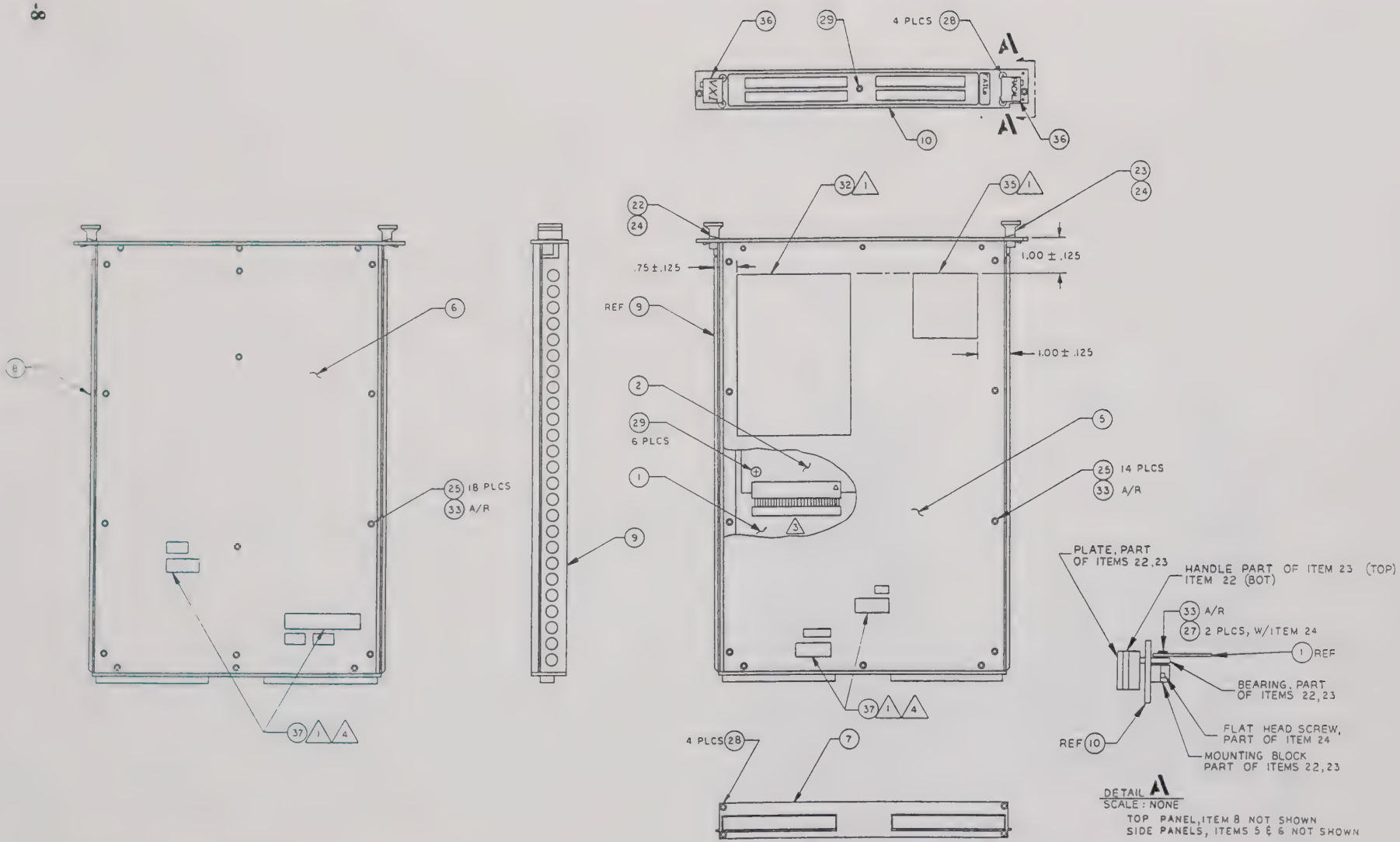
Figure 3-2, 1260-17 Pin Connections, Front View

4.0 Assembly Drawings

407165	Final Assy, 1260-17 (IDC Connectors)	1-8
407165-001	Final Assy, 1260-17A (Crimp Connectors	1-8
405070	PCB Assy, 1260-17	1-9
435070	Schematic, 1260-17	1-10
405071	PCB Assy, 1260-17D	1-26
435071	Schematic, 1270-17D	1-27

5.0 Parts List

407165	Final Assy, 1260-17 (IDC Connectors)	1-33
404975-002	Shipping Kit, 1260-17 (IDC Connectors)	1-34
407165-001	Final Assy, 1260-17A (Crimp Connectors)	1-35
404975-003	Shipping Kit, 1260-17A (Crimp Connectors)	1-36
405070	PCB Assy, 1260-17	1-37
405071	PCB Assy, 1260-17D	1-39
List of Suppliers		1-40



△5 407165 USES ITEM 38 (404975-002) QTY 1. 407165-001 USES ITEM 39 (404975-003) QTY 1. } SEE SHT 2 OF 2.

△4 AFFIX LABELS AS SHOWN, ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.

△3 CONNECT CABLE FROM ITEM 1 TO ITEM 2 AS SHOWN.

2. INCLUDE ITEM 38 (404975-002 SHIP KIT) OR ITEM 39 (404975-003 SHIP KIT) IN BOX WITH ASSY.

△1 LOCATE LABELS WHERE SHOWN.

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DOCUMENT TITLE: FINAL ASSY, 1260-17, 17A

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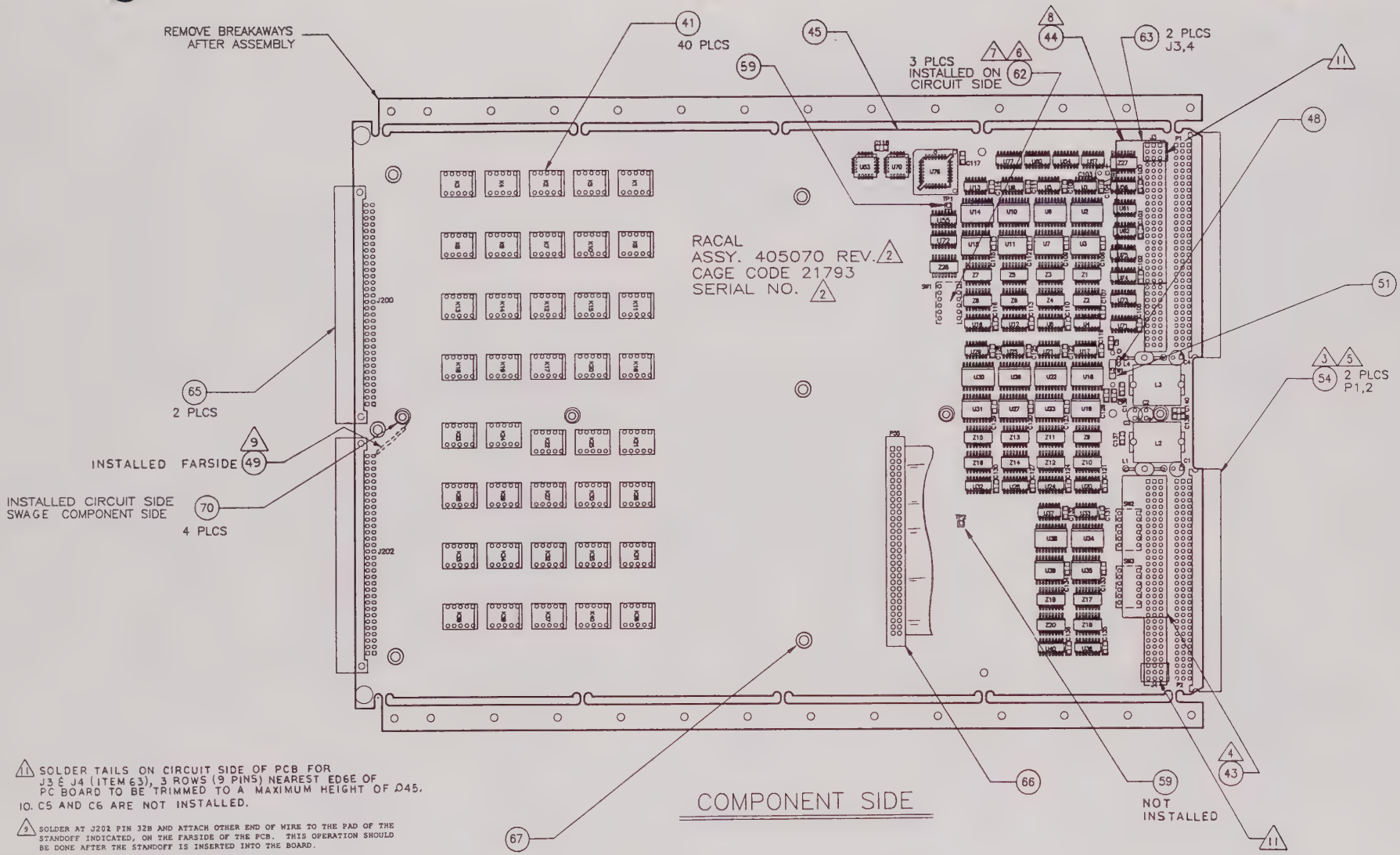

COMPONENT SIDE

1. SOLDER TAILS ON CIRCUIT SIDE OF PCB FOR J3 & J4 (ITEM 63), 3 ROWS (9 PINS) NEAREST EDGE OF PC BOARD TO BE TRIMMED TO A MAXIMUM HEIGHT OF .045.
10. C5 AND C6 ARE NOT INSTALLED.

9. SOLDER AT J202 PIN 32B AND ATTACH OTHER END OF WIRE TO THE PAD OF THE STANDOFF INDICATED, ON THE FARSIDE OF THE PCB. THIS OPERATION SHOULD BE DONE AFTER THE STANDOFF IS INSERTED INTO THE BOARD.

8. INSTALL (ITEM 44) PCB INTO (ITEM 63) J3.

7. SET SW2 AND SW3 (ITEM 62) TO ON POSITION. DO NOT WAVE SOLDER.

6. SET SW1 (ITEM 62) TO LOGICAL ADDRESS 1 PER TABLE 1. ALSO SET SW1 POSITION 5 TO ON. DO NOT WAVE SOLDER.

5. P1 AND P2 MUST BE INSTALLED FLUSH AT RIGHT ANGLE TO PCB.

4. INSTALL (ITEM 43) PCB INTO (ITEM 63) J4.

3. SOLDER TAILS ON CIRCUIT SIDE OF PCB FOR P1 AND P2 (ITEM 54) TO BE TRIMMED TO A MAXIMUM HEIGHT OF .045.

2. INK STAMP SERIAL NUMBER AND CURRENT REVISION ON COMPONENT SIDE APPROX. WHERE SHOWN.

1. REFERENCE SCHEMATIC 435070.

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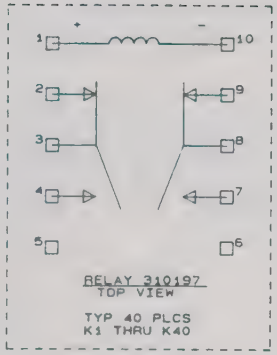
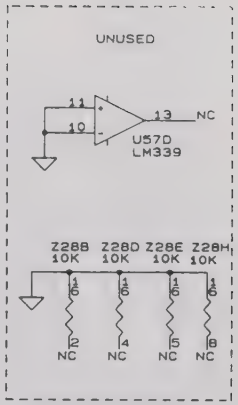


REF. DES.	IC TYPE	+5V PIN NO.	GND PIN NO.
U76	231154 (22V10H)	28	14
U75	26LS31	16	8
U73, 74	26LS32	16	8
U71, 72, 77	74HCT253	16	8
U70	231152-001 (16L8Q)	20	10
U57	LM339	3	12
U56	74HCT85	16	8
U54, 55	74LS138	16	8
U53	231153 (16R4)	20	10
U4, 8, 12, 16, 20, 24, 28 U32, 36, 40, 60	74HCT166	16	8
U3, 7, 11, 15, 19, 23, U27, 31, 35, 39	2803	NC	9
U2, 6, 10, 14, 18, 22, U26, 30, 34, 38	74HCT273	20	10
U1, 5, 9, 13, 17, 21, 25, 29 U33, 37, 61, 62	74HCT164	14	7

IC POWER AND GROUND CONNECTIONS

HIGHEST REF. DES.
Z28
W1
U77
TP2
SW3
P55
L5
K40
J202
C140



4. TP2, C5 AND C6 ARE NOT INSTALLED.
3. RELAYS K1 THRU K40 ARE RACAL P/N 310197.
   ALL RELAYS SHOWN IN DE-ENERGIZED POSITION.
2. RESISTOR NETWORKS ARE IN OHMS.
1. CAPACITOR VALUES ARE IN MICROFARADS, 50V, +/-20% UNLESS O

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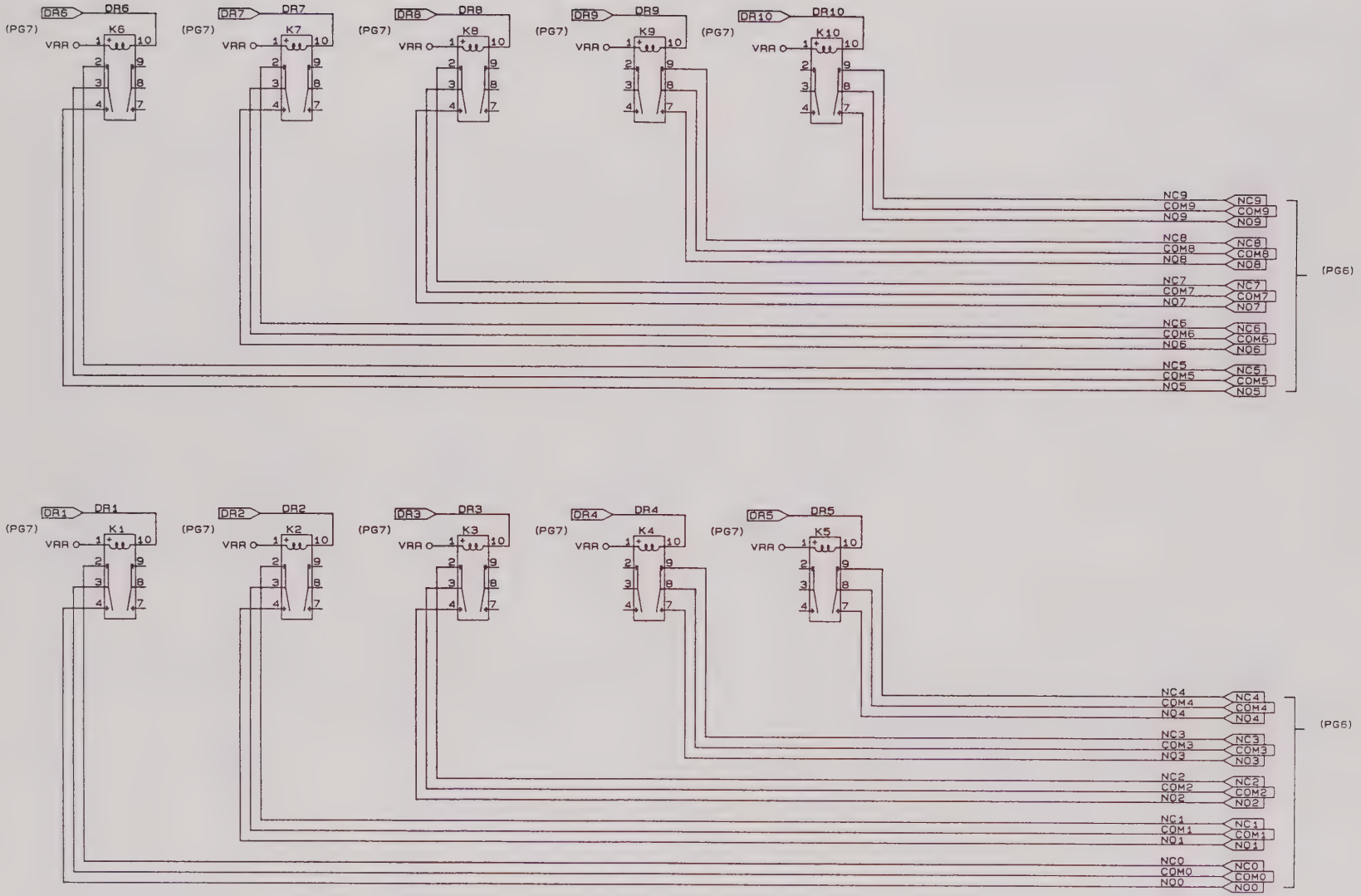

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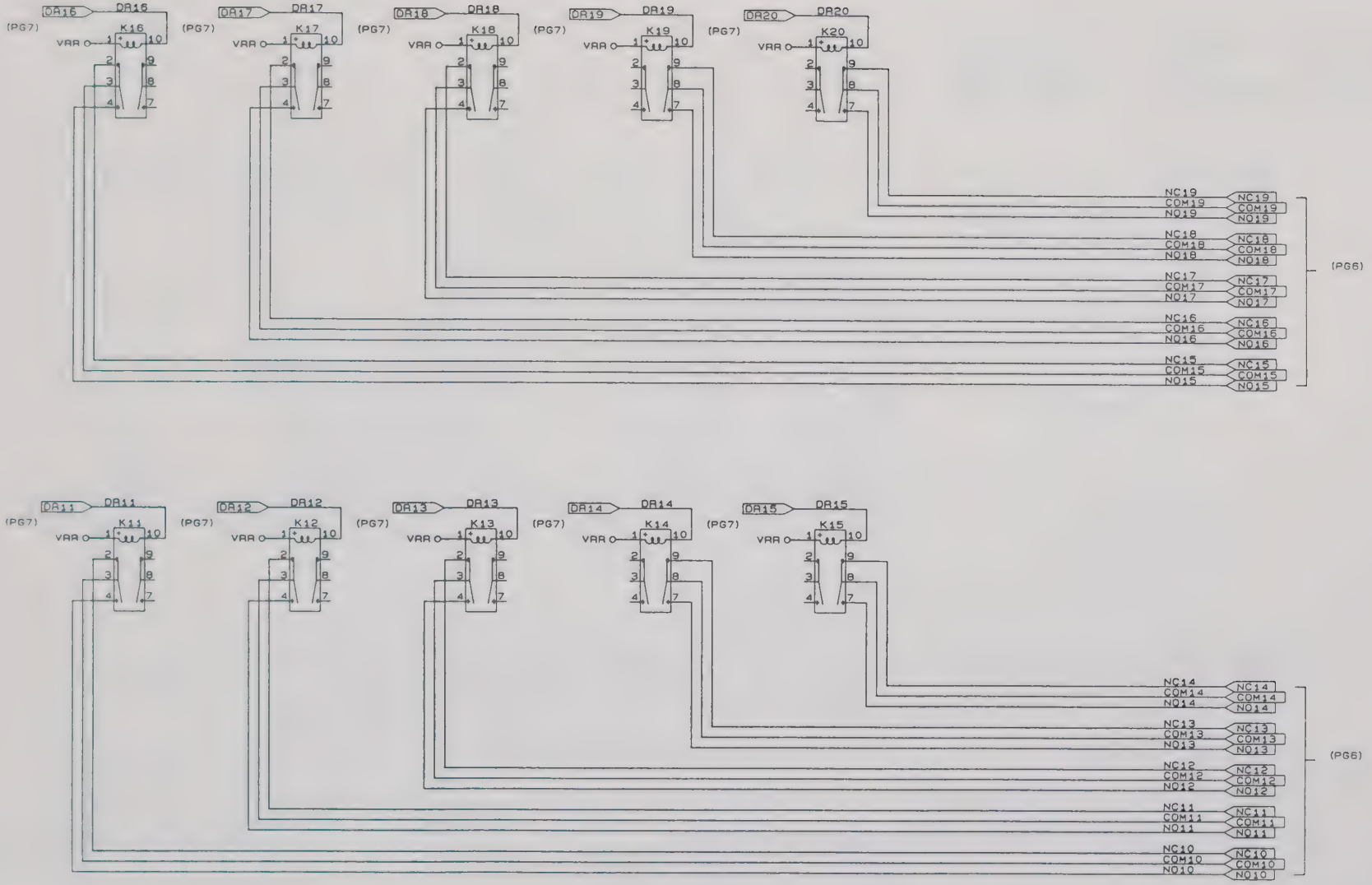

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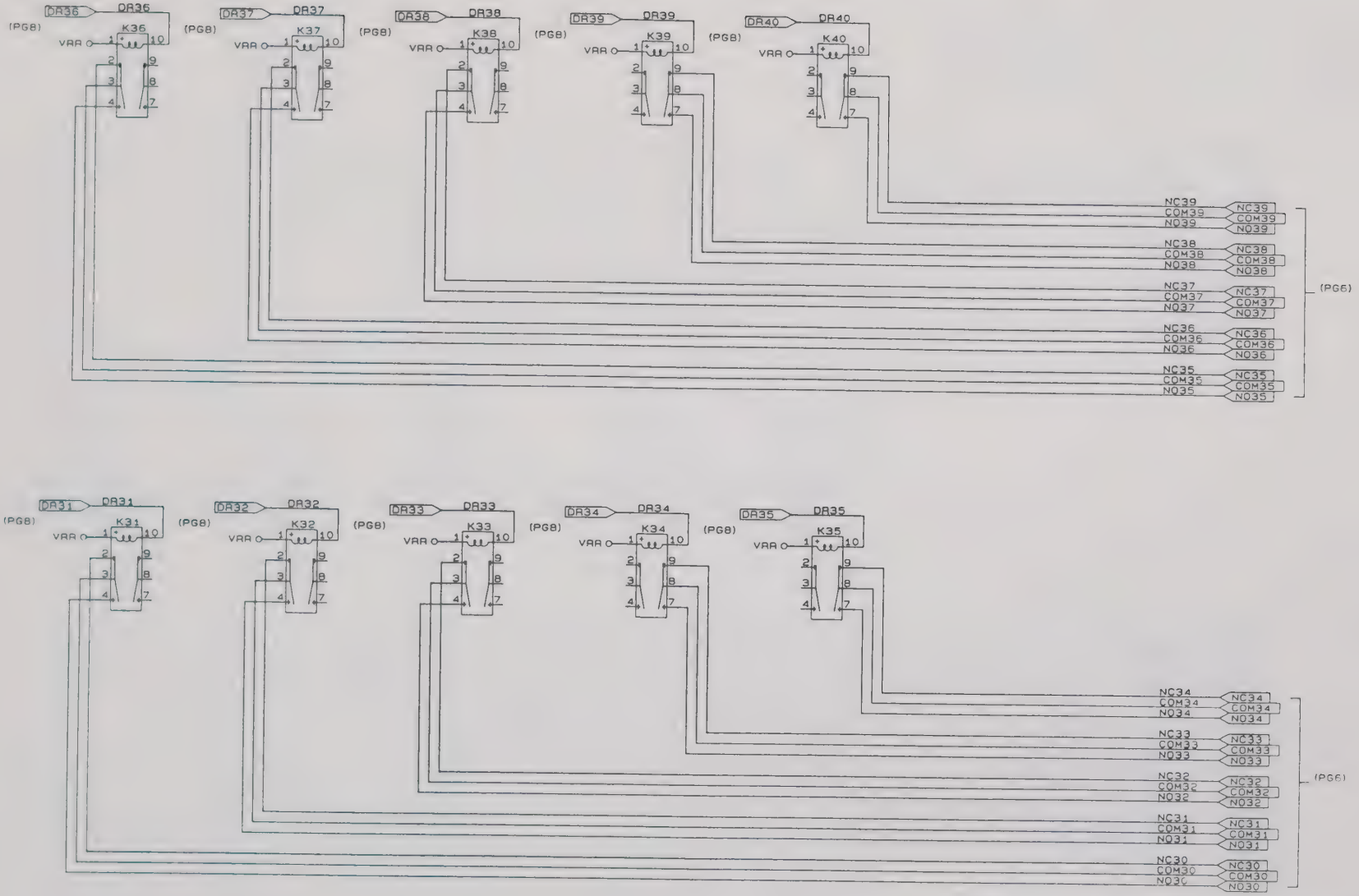

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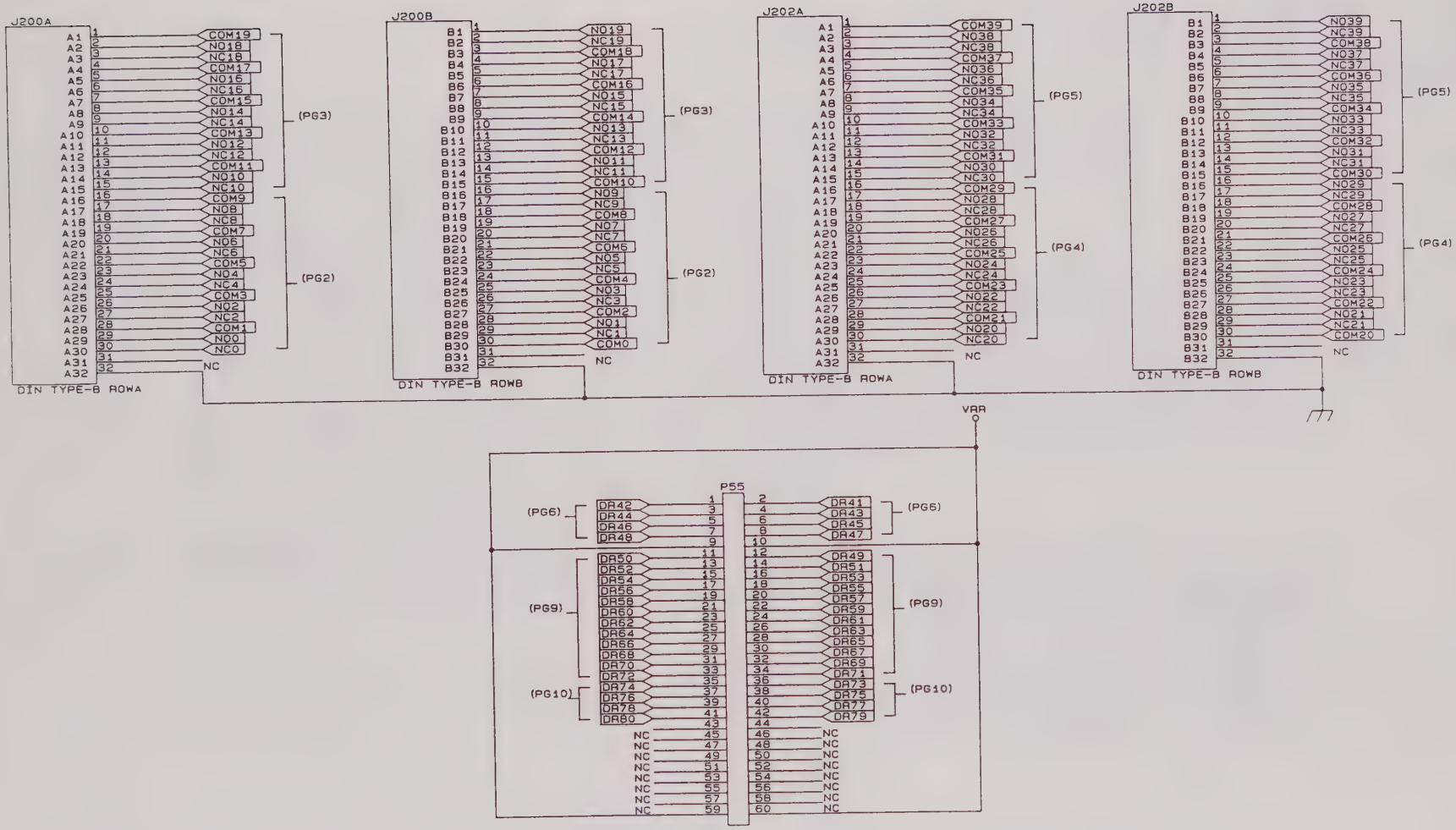

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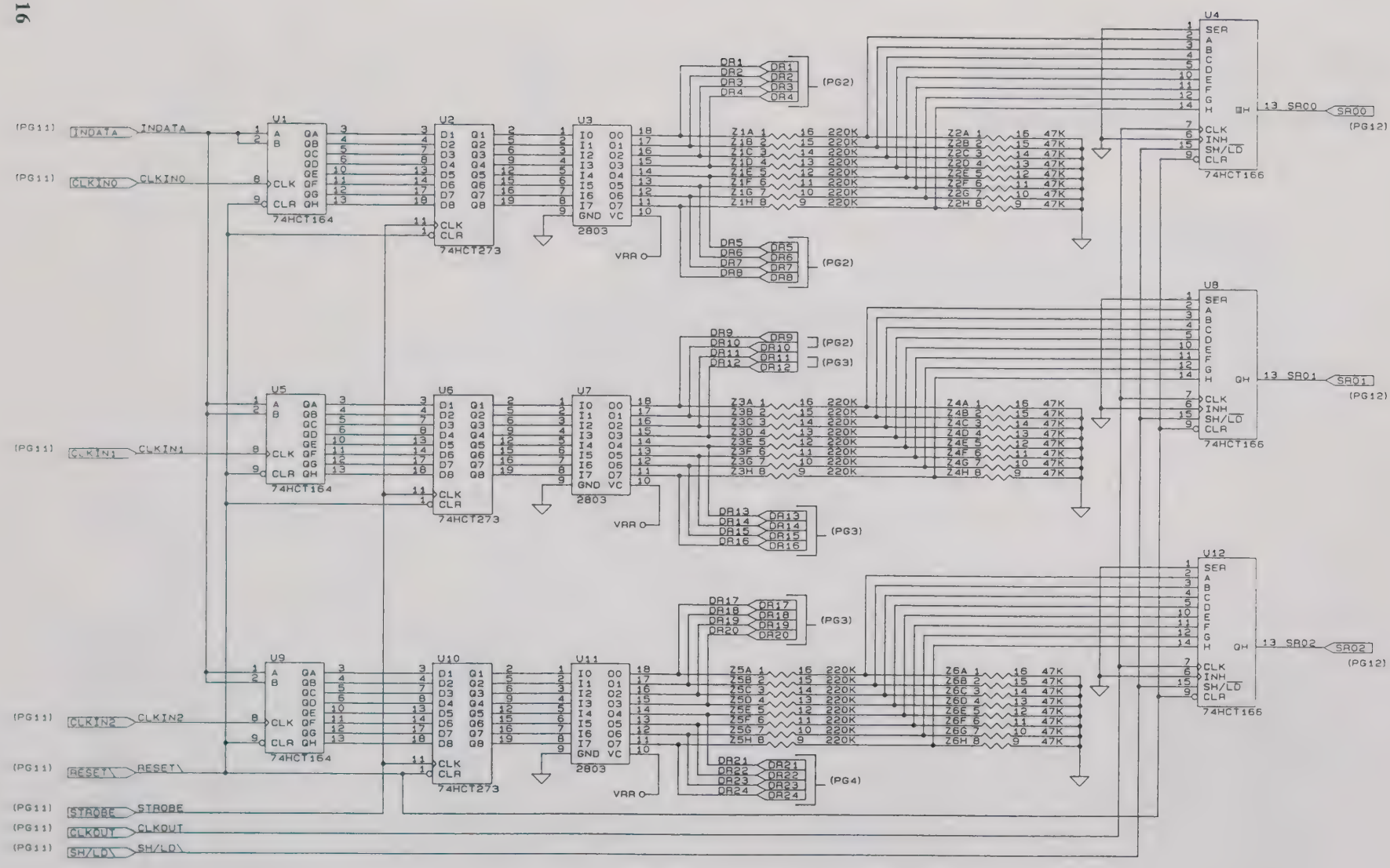

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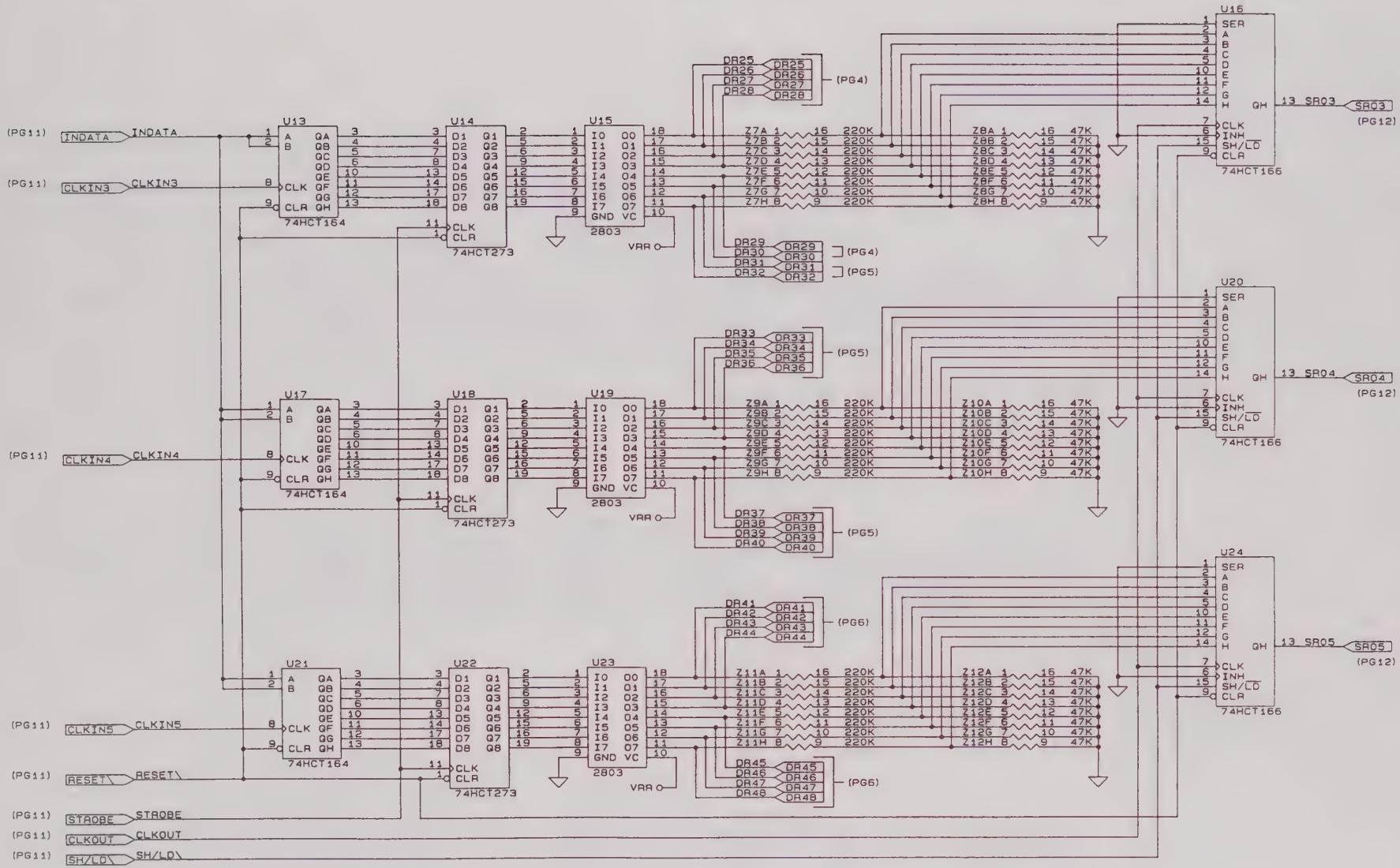

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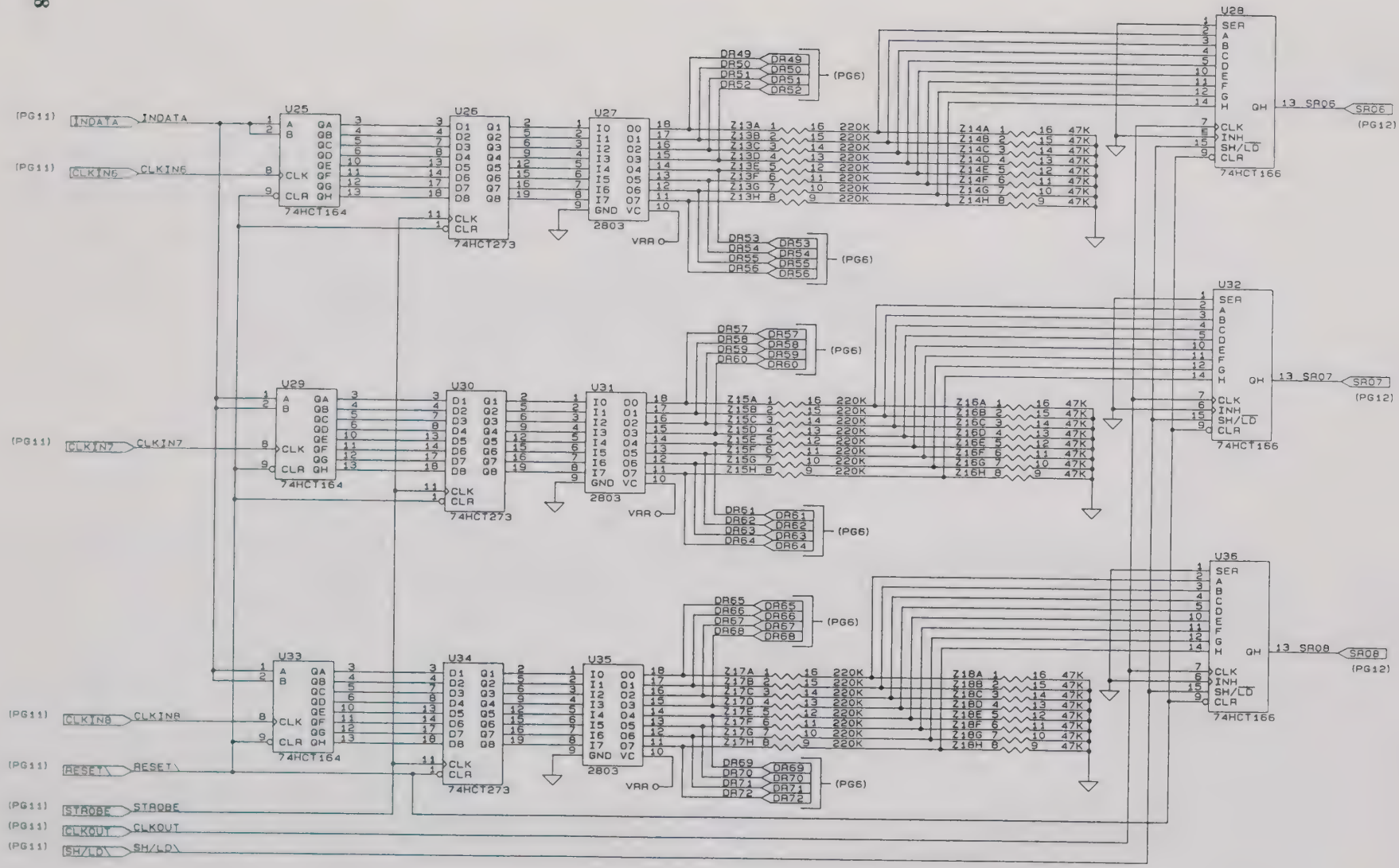

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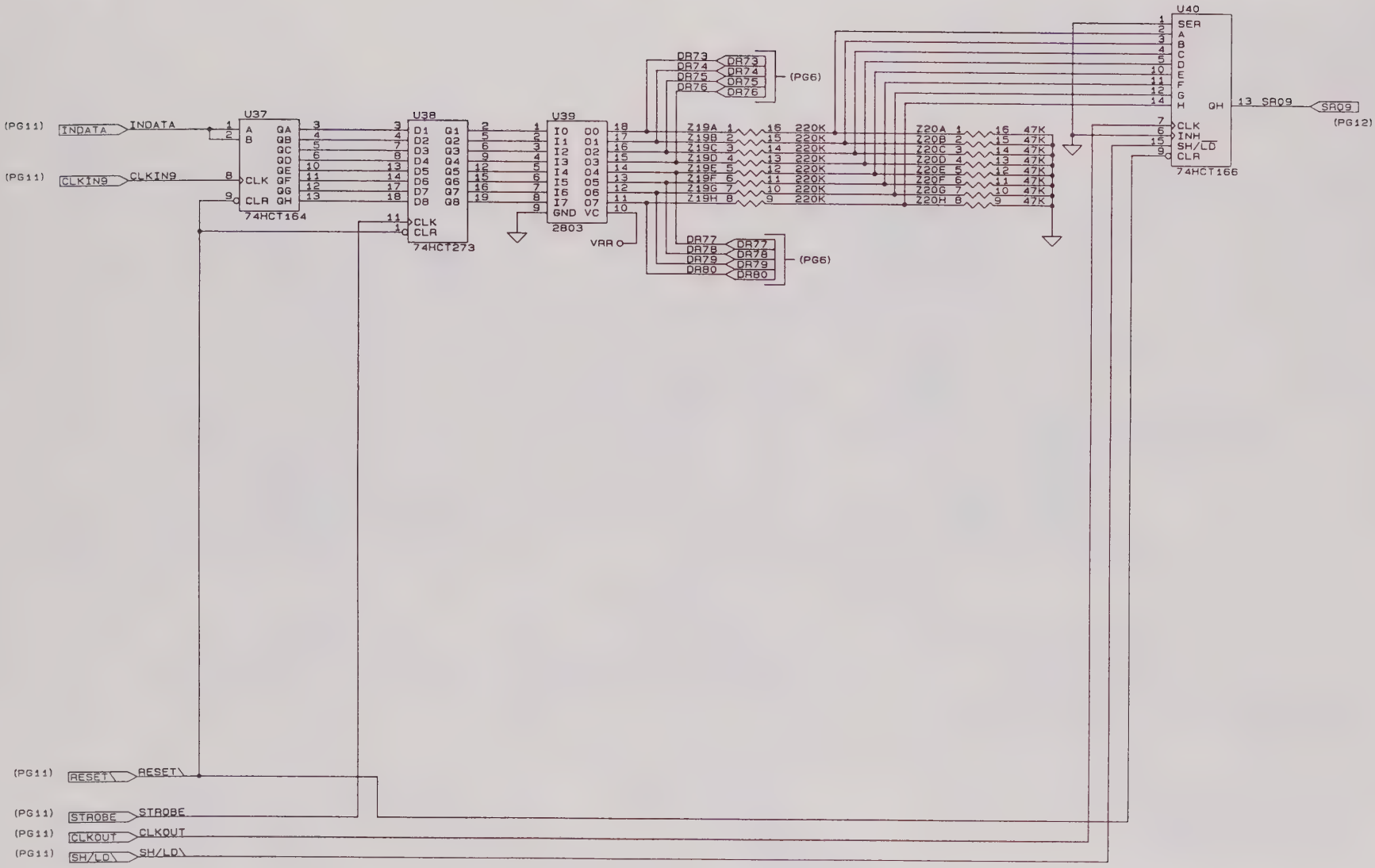

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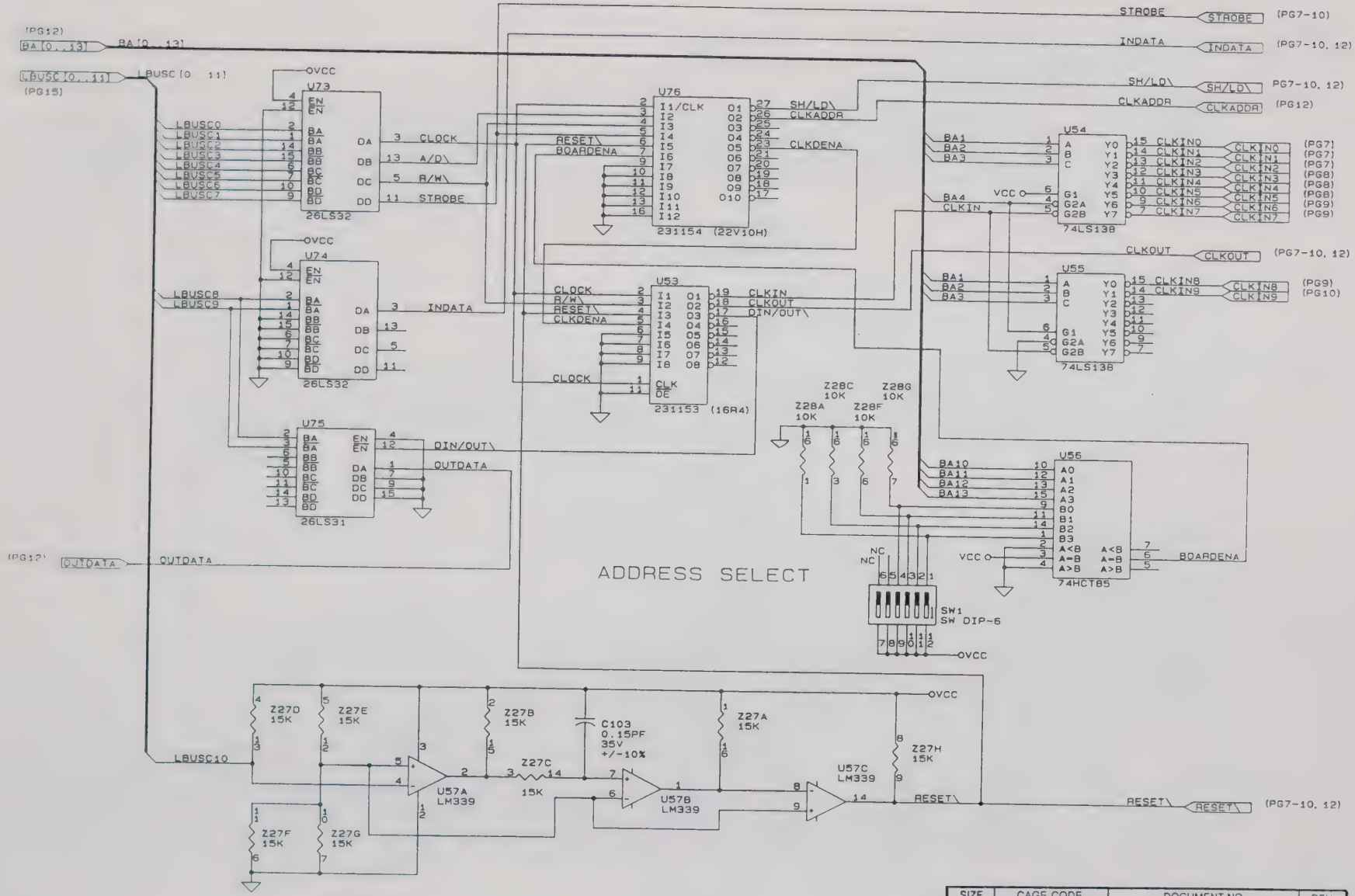

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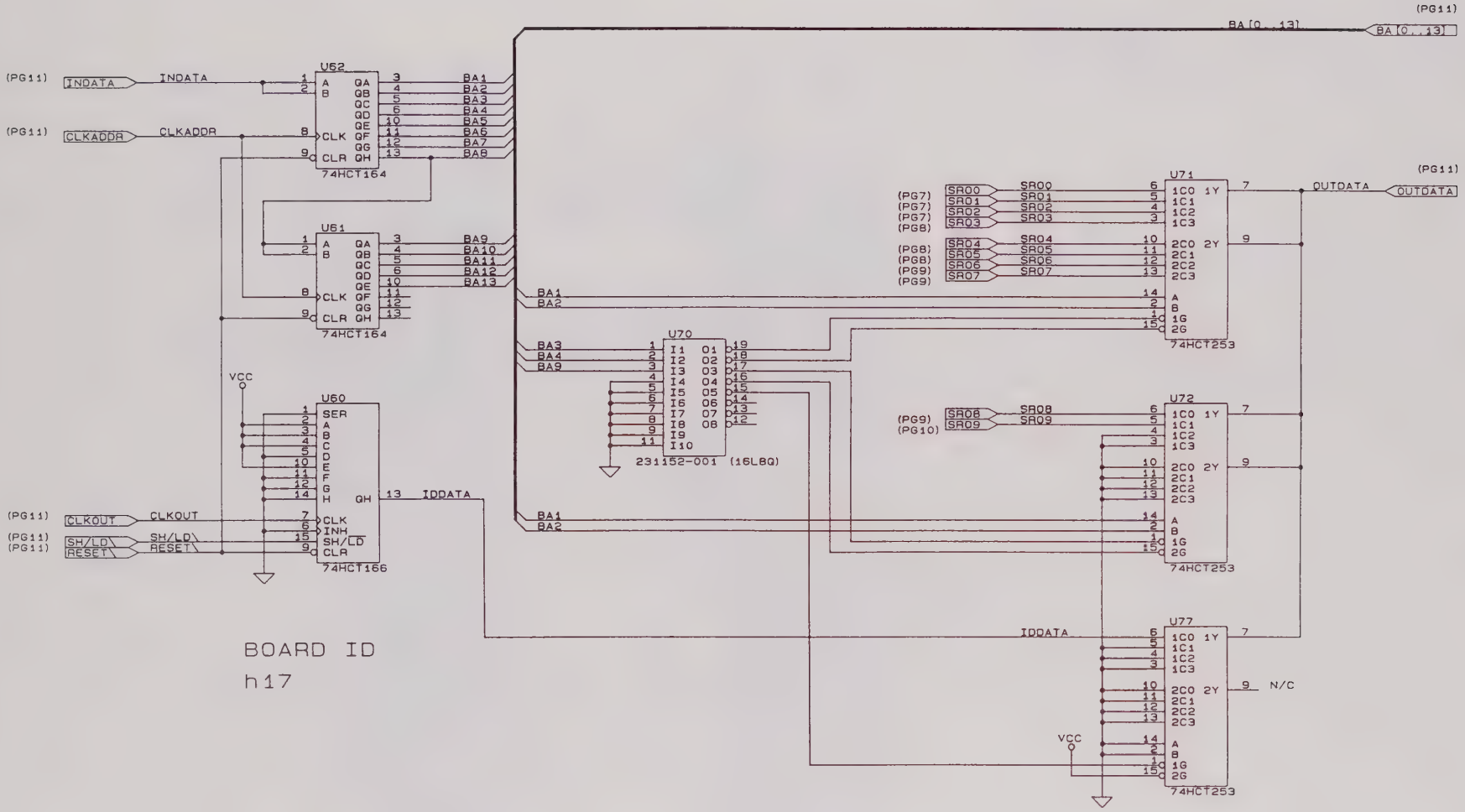

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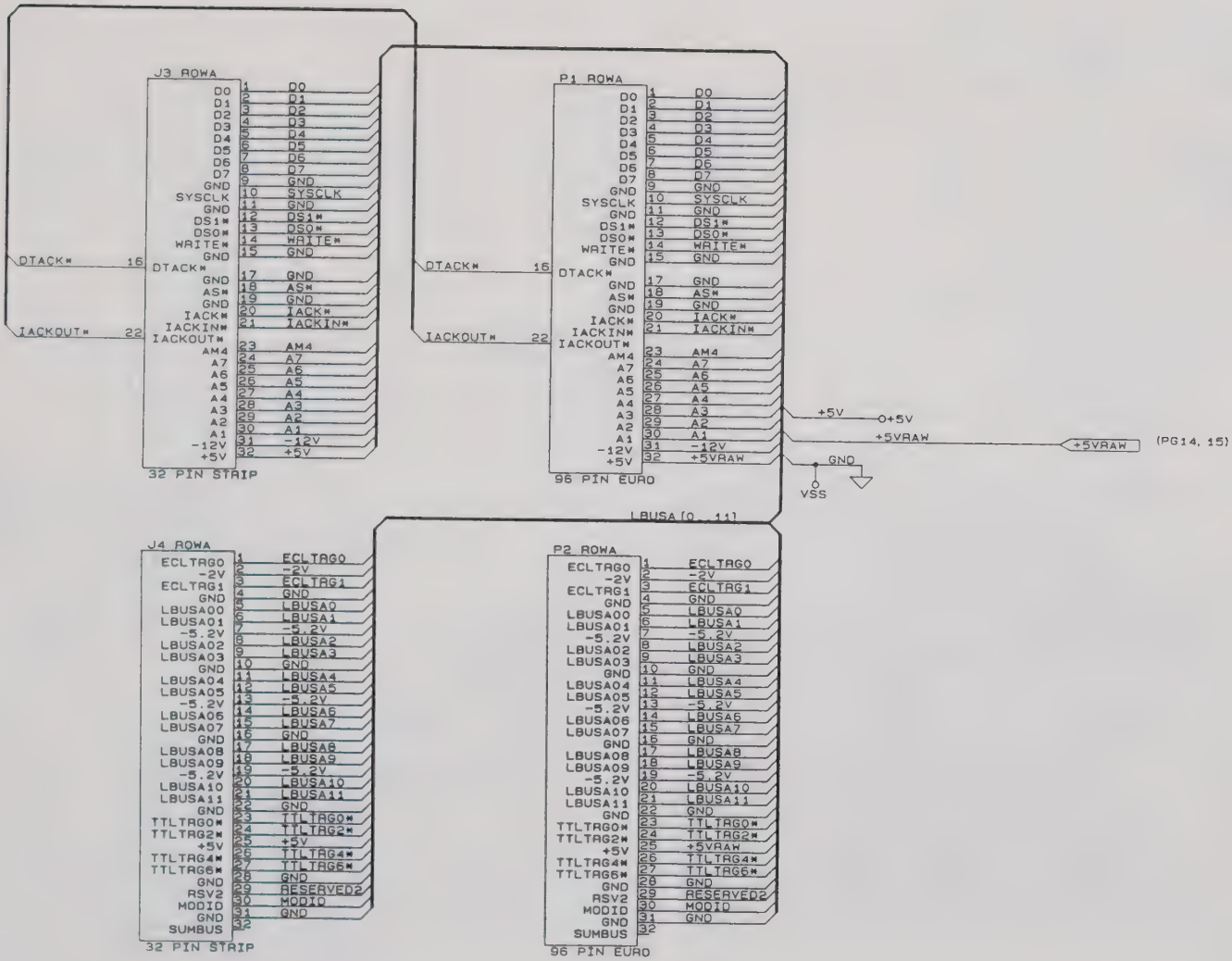

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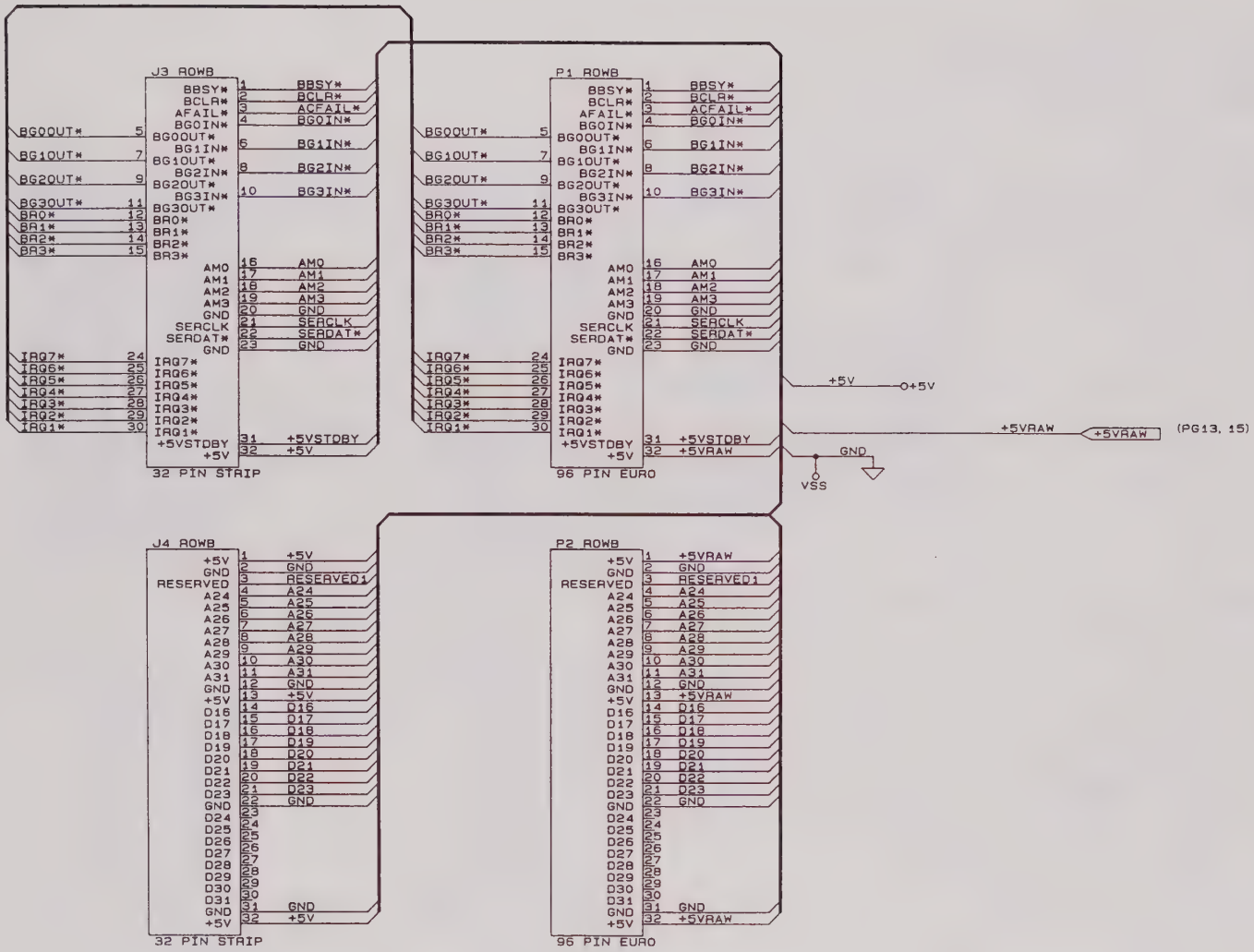

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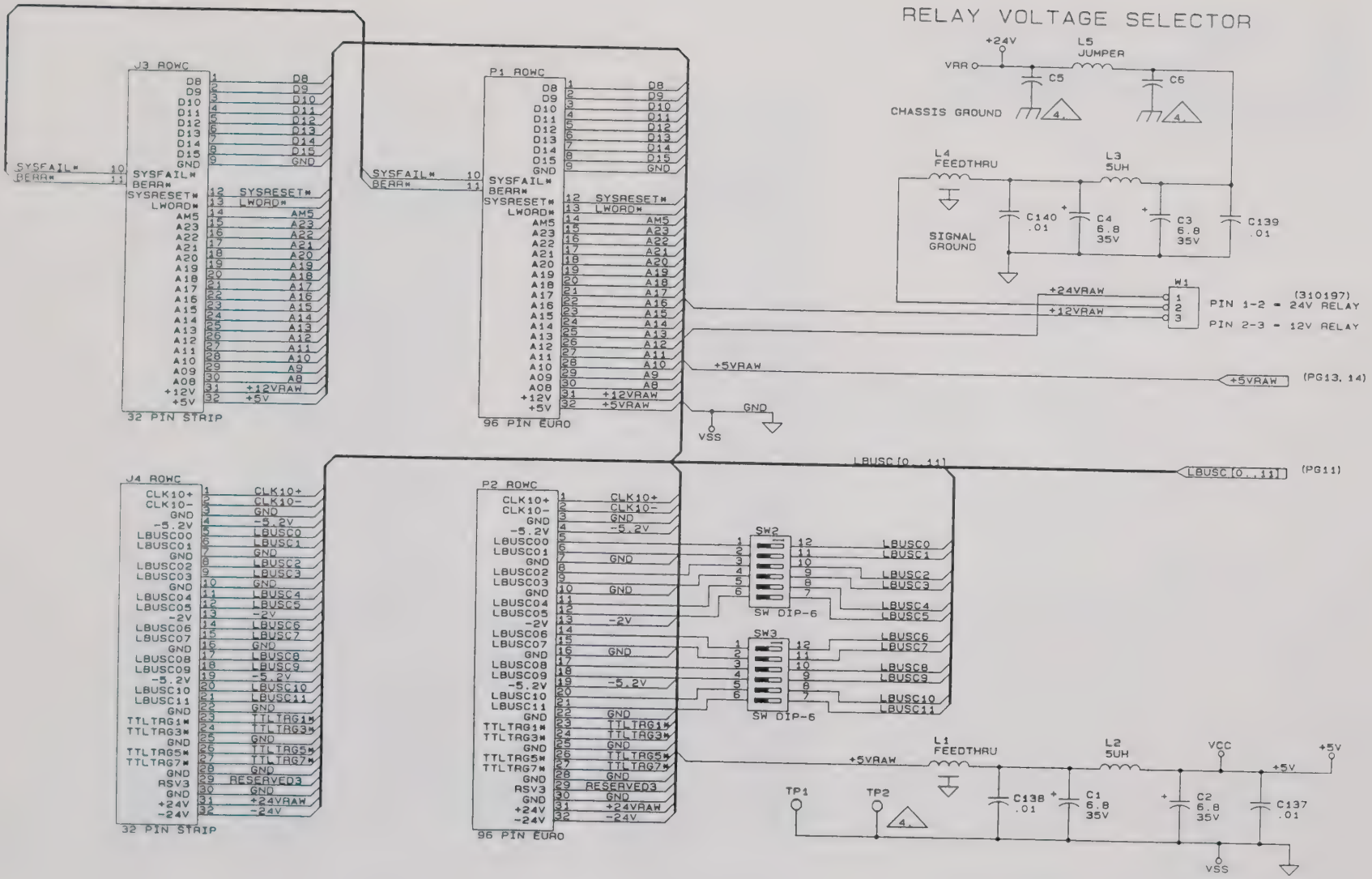

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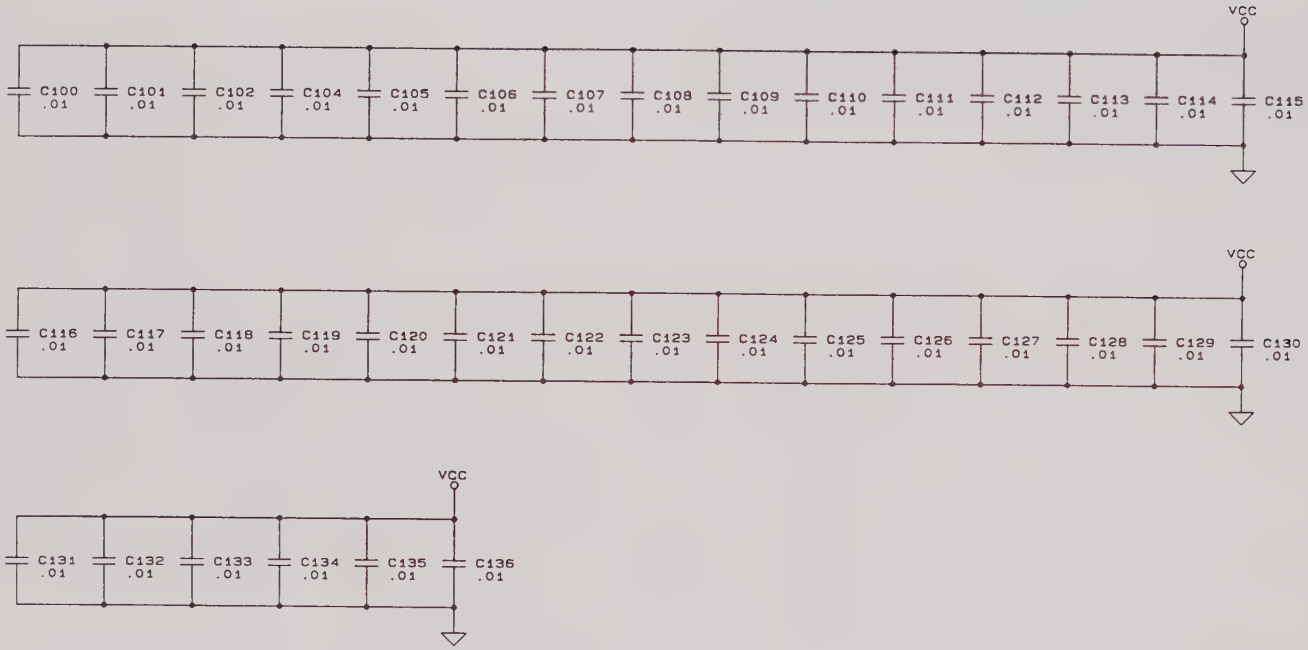

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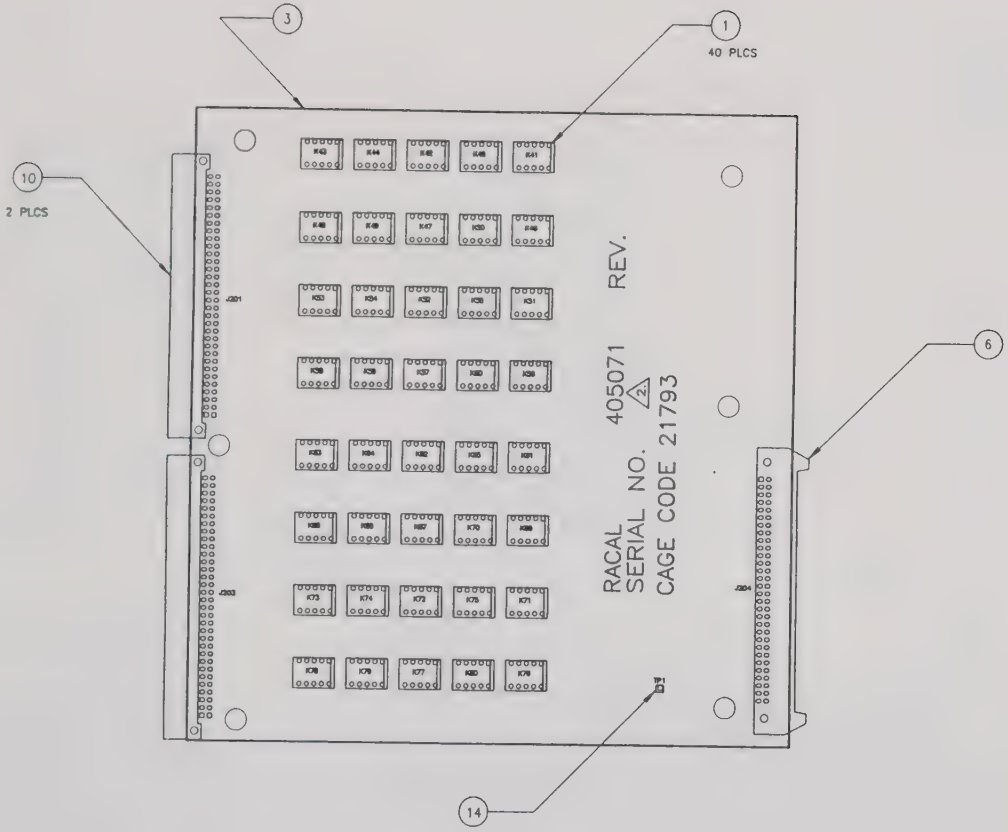

COMPONENT SIDE

2. INK STAMP SERIAL NUMBER AND CURRENT REVISION ON COMPONENT SIDE APPROX. WHERE SHOWN.
1. REFERENCE SCHEMATIC 435071.

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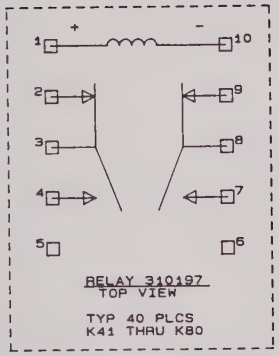
Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

DOCUMENT TITLE			
PCB ASSY, 1260-17D			
SIZE	CODE IDENT NO	DOCUMENT NO	REV
D	21793	405071	A
SCALE		SHEET 1 OF 2	



RELAY 310197
TOP VIEW

TYP 40 PLCS
K41 THRU K80

TP1
K80
J204
HIGHEST REF. DES.

1. RELAYS K41 THRU K80 ARE RACAL P/N 310197.
   ALL RELAYS SHOWN IN DE-ENERGIZED POSITION.

NOTES: UNLESS OTHERWISE SPECIFIED

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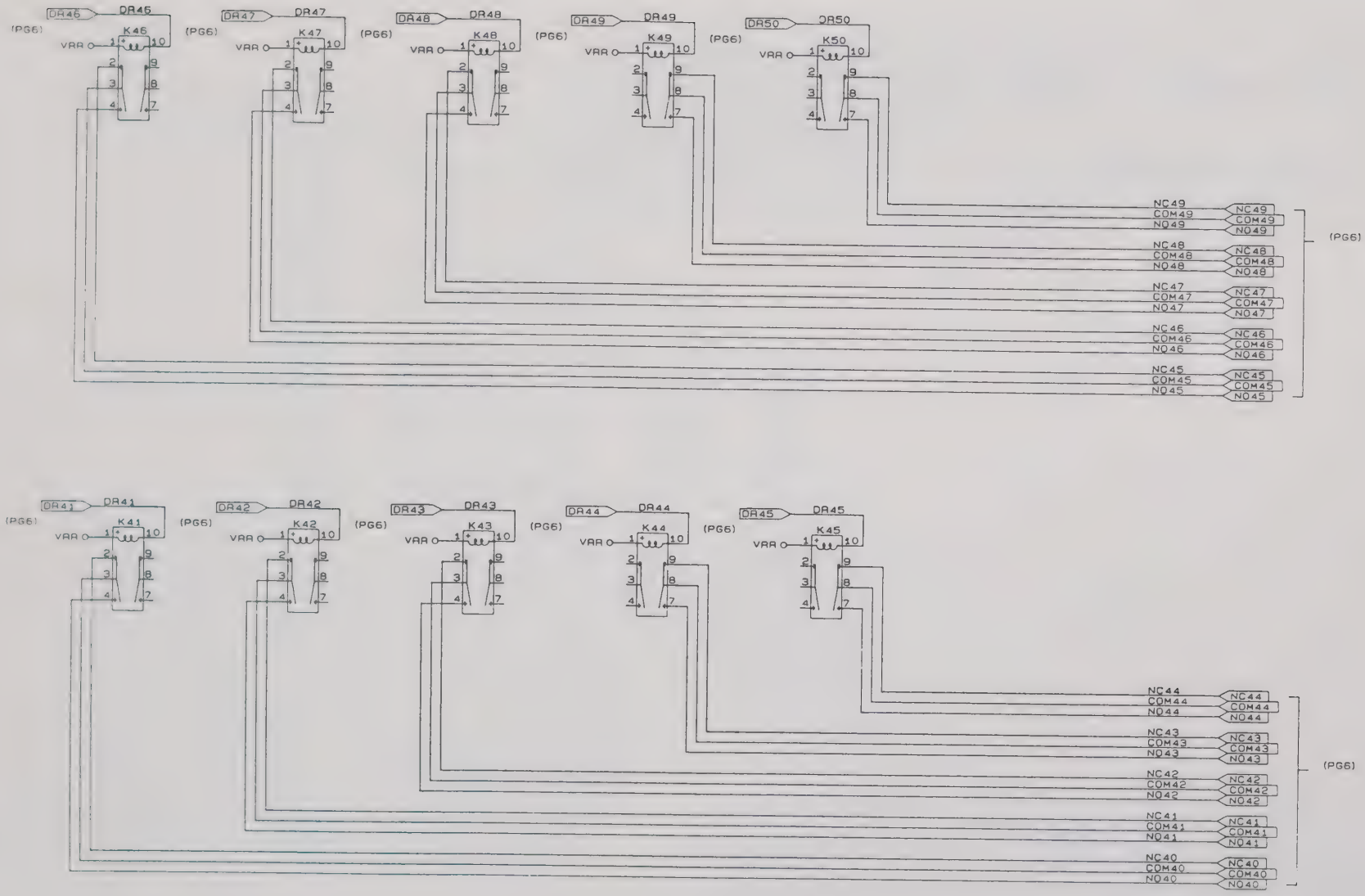
Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

DOCUMENT TITLE

SCHEM, 1260-17D

SIZE	CAGE CODE	DOCUMENT NO.	REV
B	21793	435071	A

SCALE ———— SHEET 1 OF 6



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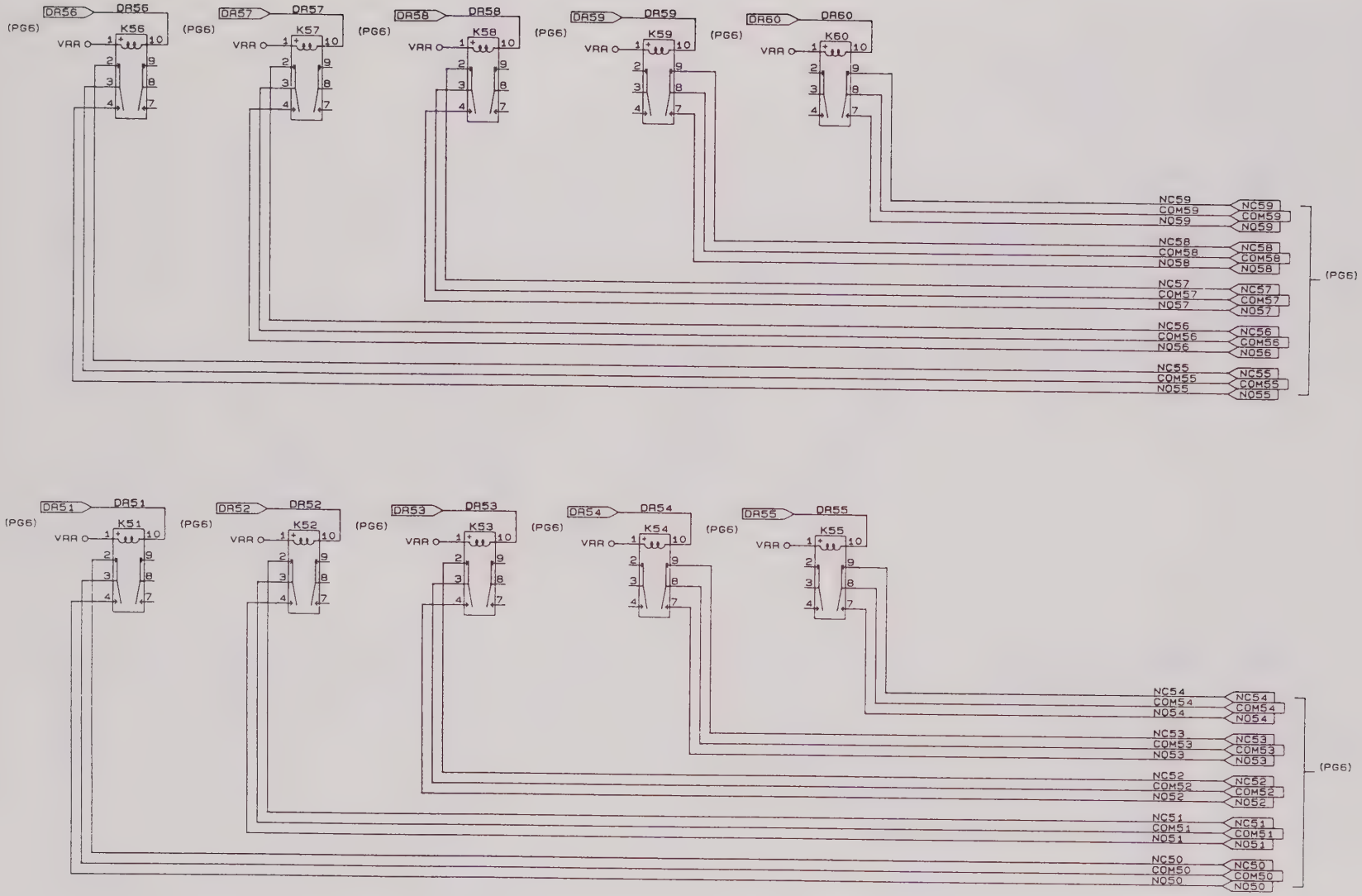

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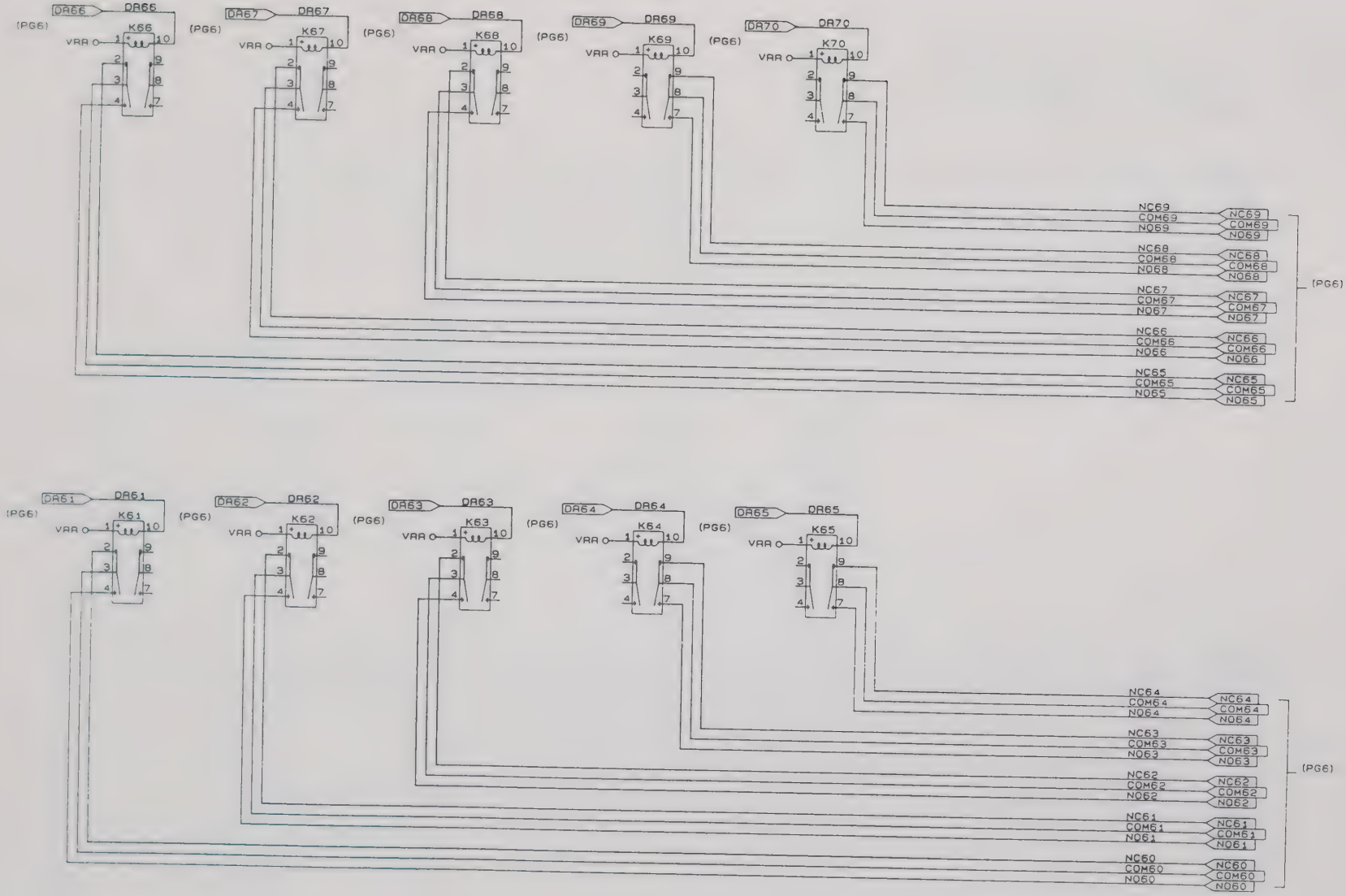

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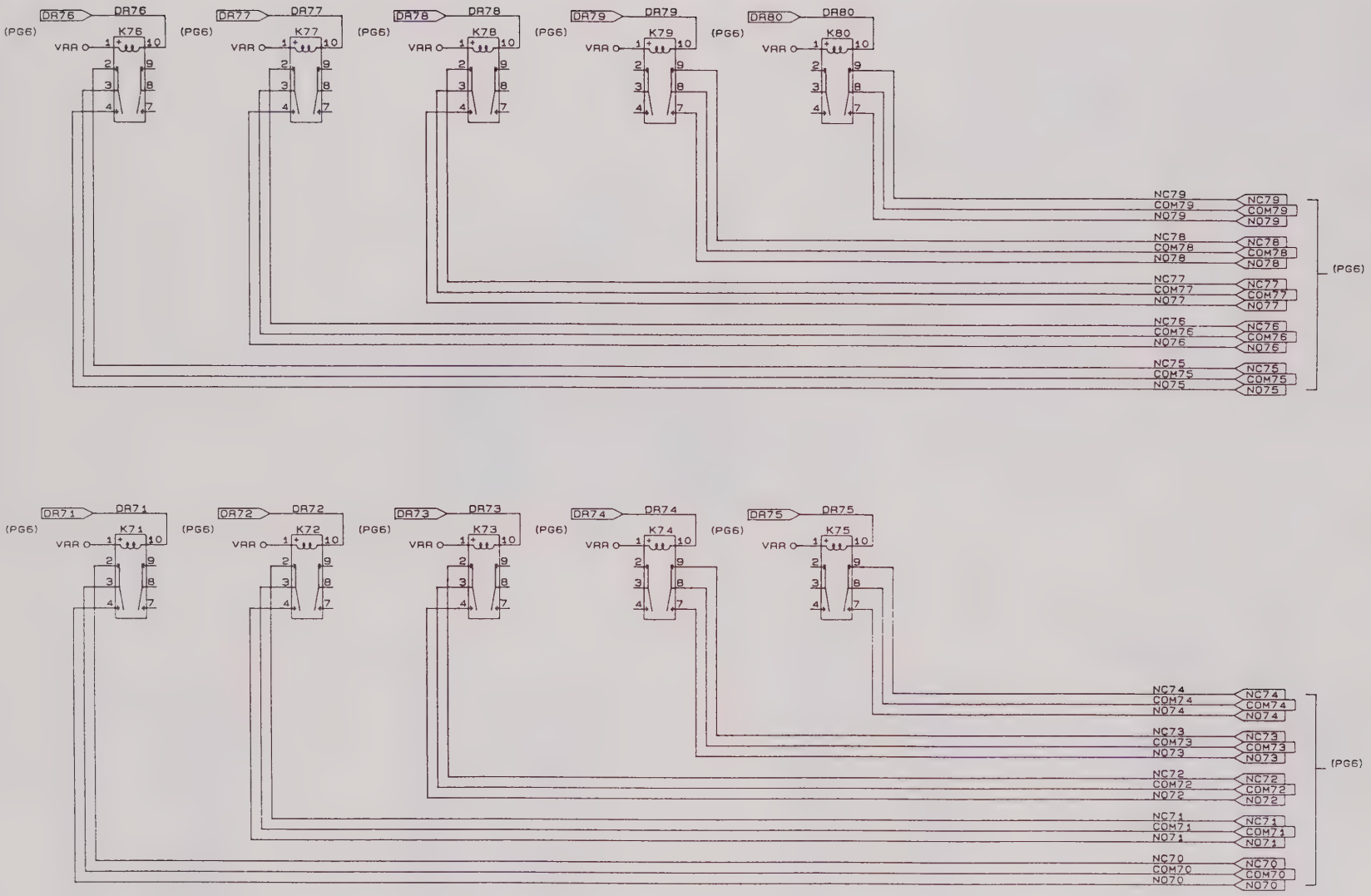

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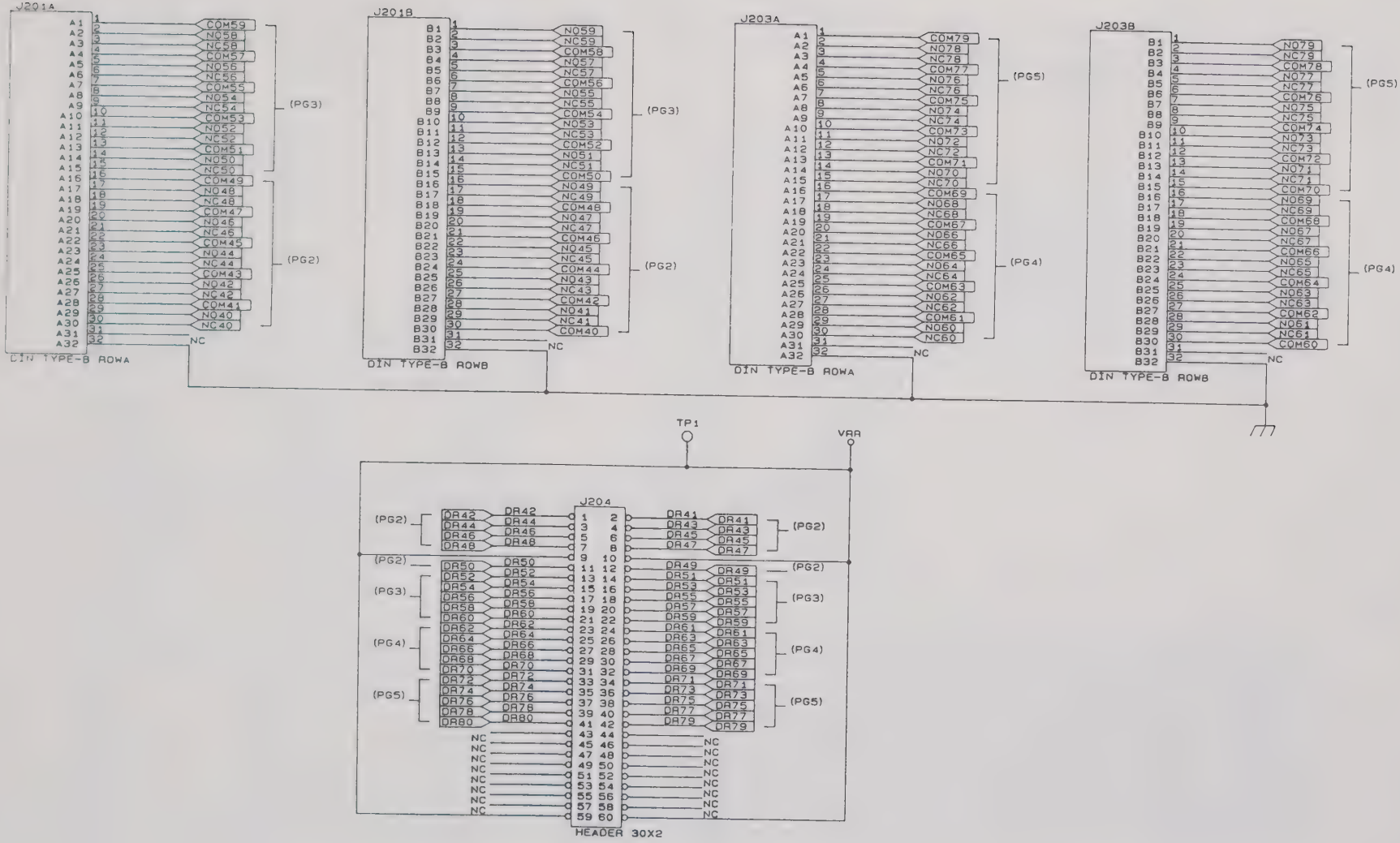
SCALE _____		SHEET 5 OF 6	



SIZE	CAGE CODE	DOCUMENT NO	REV
B	21793	435071	A
SCALE		SHEET 6 OF 6	

407165 - FINAL ASSY., 1260-17

REF DESIG	RACAL P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	405070	PCB ASSY, 1260-17	21793	405070
{2}1	405071	PCB ASSY, 1260-17D	21793	405071
{5}1	455901	PANEL, RIGHT SIDE	21793	455901
{6}1	455779-003	PANEL, SIDE, LEFT	21793	455779-003
{7}1	455781	PANEL, REAR, SINGLE	21793	455781
{8}1	455784-001	PANEL, VXI TOP	21793	455784-001
{9}1	455784-002	PANEL, VXI BOTTOM	21793	455784-002
{10}1	455814-002	PANEL, FRONT	21793	455814-002
{22}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{23}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{24}0.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{25}32	615539	SCREW, PFH, 4-40X. 125	-	-
{27}2	616405	SCREW, PFH, M2.5-.45 X 12	-	-
{28}8	616480	SCREW, PFH, 4-40 X .375	-	-
{29}7	616251	SCREW, PPH, SEMS ASSY, 4-40X.250	78189	SEMS W/SQ CONE WA.
{32}1	921212-028	LABEL, VXI, 1260-17	21793	921212-028
{33}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{35}1	921059	LABEL, CAUTION, STATIC	21793	921059
{36}1	921148-001	LABEL SET, VXI	21793	921148-001
{37}1	921309	LABEL, VXI SWITCH ID	21793	921309
{38}1	404975-002	SHIPPING KIT, 1260-17	21793	404975-002

404975-002 - SHIPPING KIT, 1260-17

REF DESIG	RACAL P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}2	455540	KEY, LOCKOUT, TTL, A/C	21793	455540
{2}2	455541	KEY, LOCKOUT, TTL, A/C	21793	455541
{3}2	455542	KEY, LOCKOUT, TTL, A/C	21793	455542
{6}4	602004	CONNECTOR, TYPE B, FEMALE, 64-PIN	06383	120-064-455
{7}4	602004-001	STRAIN RELIEF, WITH HANDLE	06383	120-000-032
{8}4	602004-002	PULL TAB, SOCKET, 2.5W	06383	LPT-50
{11}3	615013	SCREW, PPF, 2-56 X .188	-	-
{13}1	980673-013	MODULE MANUAL, 1260-17	21793	980673-013

407165-001 - FINAL ASSY., 1260-17A

REF DESIG	RACAL P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	405070	PCB ASSY, 1260-17	21793	405070
{2}1	405071	PCB ASSY, 1260-17D	21793	405071
{5}1	455901	PANEL, RIGHT SIDE	21793	455901
{6}1	455779-003	PANEL, SIDE, LEFT	21793	455779-003
{7}1	455781	PANEL, REAR, SINGLE	21793	455781
{8}1	455784-001	PANEL, VXI TOP	21793	455784-001
{9}1	455784-002	PANEL, VXI BOTTOM	21793	455784-002
{10}1	455814-002	PANEL, FRONT	21793	455814-002
{22}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{23}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{24}0.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{25}32	615539	SCREW, PFH, 4-40X. 125	-	-
{27}2	616405	SCREW, PFH, M2.5-.45 X 12	-	-
{28}8	616480	SCREW, PFH, 4-40 X .375	-	-
{29}7	616251	SCREW, PPH, SEMS ASSY, 4-40X.250	78189	SEMS W/SQ CONE WA.
{32}1	921212-028	LABEL, VXI, 1260-17	21793	921212-028
{33}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{35}1	921059	LABEL, CAUTION, STATIC	21793	921059
{36}1	921148-001	LABEL SET, VXI	21793	921148-001
{37}1	921309	LABEL, VXI SWITCH ID	21793	921309
{39}1	404975-003	SHIPPING KIT, 1260-17A	21793	404975-003

404975-003 - SHIPPING, KIT 1260-17A

REF DESIG	RACAL P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}2	455540	KEY, LOCKOUT, TTL, A/C	21793	455540
{2}2	455541	KEY, LOCKOUT, TTL, A/C	21793	455541
{3}2	455542	KEY, LOCKOUT, TTL, A/C	21793	455542
{6}4	602159-064	CONNECTOR HOUSING, 64-PIN, DIN-B, PLUG	OG8R9	09020643214
{10}256	602159-900	CONTACT, CRIMP, SKT, 28-24 AWG	OG8R9	09020008484
{11}3	615013	SCREW, PPF, 2-56 X .188	-	-
{13}1	980673-013	MODULE MANUAL, 1260-17	21793	980673-013

405070 - PCB ASSY., 1260-17

REF DESIG	RACAL P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1-C4	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C100-C102	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C103	110165	CAP, TANTA, .15 MF, 35V, 10PCT	05397	T355A154K035AS
C104-C140	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
J3	601925	CONNECTOR, PCB, RECEPT, 3 ROW, 96P	52072	618008
J4	601925	CONNECTOR, PCB, RECEPT, 3 ROW, 96P	52072	618008
J200	602005	CONNECTOR, DIN TYPE B, MALE, 64 PIN	06383	100-064033B
J202	602005	CONNECTOR, DIN TYPE B, MALE, 64 PIN	06383	100-064033B
K1-K40	310197	RELAY, 2 FORM C	61529	TQ2E-24V
L1	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L2	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L3	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L4	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L5	600245	JUMPER, INSULATED	52210	L-2007-1
P1	601675-001	CONNECTOR, EUROCARD, 96 PIN MOD.	21793	601675-001
P2	601675-001	CONNECTOR, EUROCARD, 96 PIN MOD.	21793	601675-001
P55	602023	CABLE ASSY., 1DC 60 PIN	21793	602023
SW1-SW3	601969	SWITCH, DIP 6 POS, LOW PROFILE	65832	K406S
TP1	601197	POST, TEST, .025 SQ	00779	6-87022-6
U1	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U2	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U3	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U4	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U5	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U6	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U7	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U8	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U9	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U10	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U11	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U12	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U13	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U14	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U15	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U16	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U17	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U18	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U19	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U20	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U21	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U22	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U23	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U24	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U25	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U26	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U27	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U28	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U29	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U30	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U31	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U32	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U33	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U34	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U35	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U36	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U37	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U38	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U39	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U40	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D

405070 - PCB ASSY., 1260-17

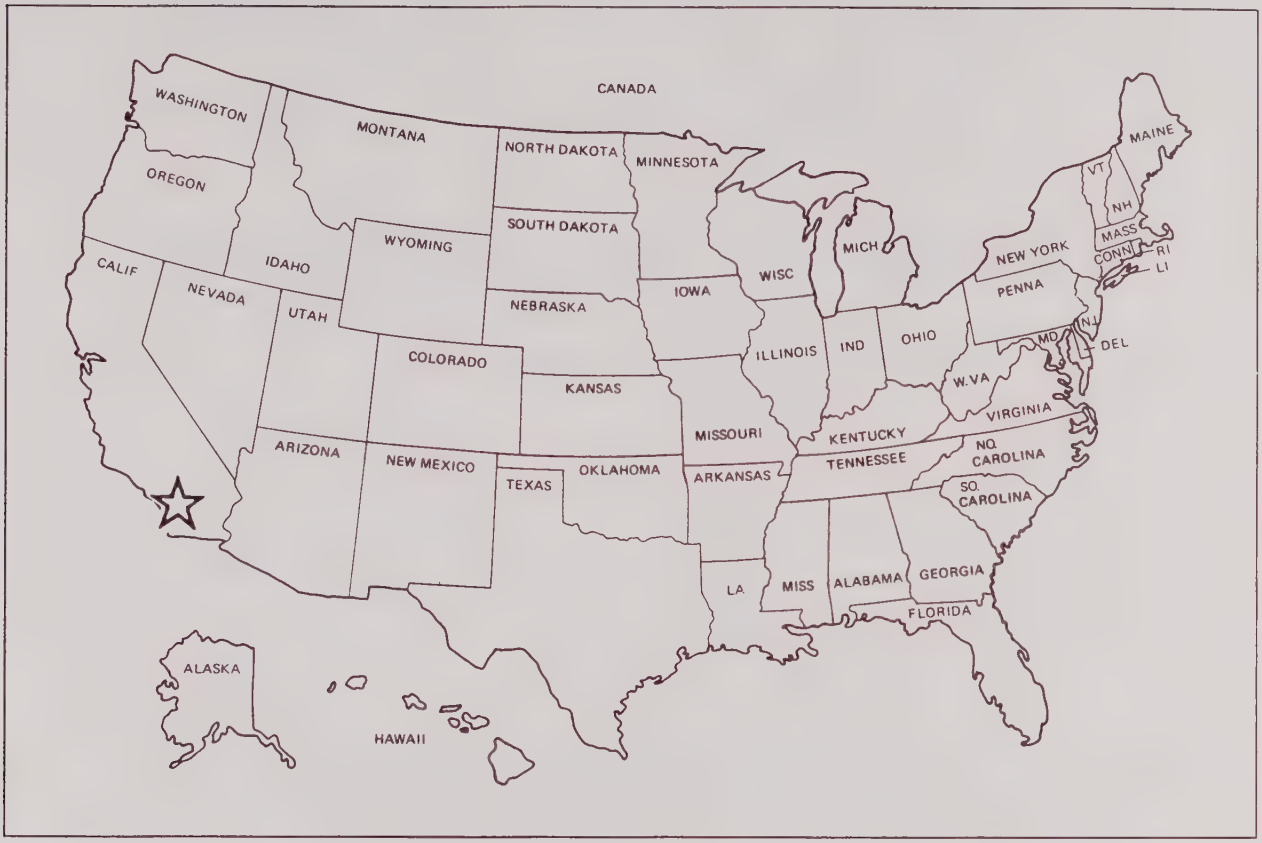
REF DESIG	RACAL P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
U53	231153	IC, PROGRAMMED PLA	21793	231153
U54	231094	IC, DEMUX DECODER	18324	N74LS138D
U55	231094	IC, DEMUX DECODER	18324	N74LS138D
U56	231135	IC, DIGITAL, 4-BIT COMPARATOR	18324	PC74HCT85D
U57	231093	IC, QUAD COMPARATOR	04713	LM339D
U60	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U61	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U62	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U70	231152-001	IC, DIGITAL 16L8, PAL	21793	231152-001
U71	231147	IC, MULTIPLEXER	04713	74HC253D
U72	231147	IC, MULTIPLEXER	04713	74HC253D
U73	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U74	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U75	231125	IC, DIGITAL, LINE DRIVER	27014	DS26LS31MN
U76	231154	IC, PROGRAMMED PLA	21793	231154
U77	231147	IC, MULTIPLEXER	04713	74HC253D
Z1	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z2	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z3	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z4	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z5	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z6	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z7	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z8	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z9	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z10	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z11	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z12	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z13	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z14	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z15	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z16	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z17	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z18	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z19	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z20	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z27	080114	RES NETWORK, 16P8R, 15K	73138	628-AL-153J
Z28	080120	RES NETWORK, 10K	11236	767-161R10K
{43}1	401951	PCB ASSY., LBUS JUMPER	21793	401951
{44}1	401951-003	PCB ASSY., P3 JUMPER	21793	401951-003
{45}1	415070	PCB, 1260-17 (UNLOADED)	21793	415070
{48}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{49}A/R	500204	WIRE, TEFLON, SOLID, 28 GA, WHT	04946	1100-32-C-9
{67}6	610257	STANDOFF, SWAGE, 1/4D, 4-40 X .31	06540	9534BB04403A
{70}4	611258-001	STANDOFF, SWAGE 4-40 X .170	06540	8091-11B-B-440-28

405071 - PCB ASSY., 1260-17D

REF DESIG	RACAL P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
J201	602005	CONNECTOR, DIN TYPE B, MALE, 64 PIN	06383	100-064033B
J203	602005	CONNECTOR, DIN TYPE B, MALE, 64 PIN	06383	100-064033B
J204	602008	CONNECTOR, RIGHT ANGLE, 60 PIN	52072	CA-60HRM-1F-S
K41-K80	310197	RELAY, 2 FORM C	61529	TQ2E-24V
TP1	601197	POST, TEST, .025 SQ	00779	6-87022-6
(3)1	415071	PCB, 1260-17D (UNLOADED)	21793	415071

FSC	SUPPLIER
00779	AMP, INC. HARRISBURG, PA
01295	TEXAS INSTRUMENTS, INC. DALLAS, TX
04713	MOTOROLA, INC. (SEMICONDUCTOR PRODUCTS DIV.) PHOENIX, AZ
04946	STANDARD WIRE & CABLE RANCHO DOMINGUEZ, CA
05397	UNION CARBIDE CORP. (MATERIALS SYSTEMS DIV.) CLEVELAND, OH
05972	LOCTITE CORP. HARTFORD, CT
06383	PANDUIT CORP. TINLEY PARK, IL
06540	AMATOM ELECTRONIC HARDWARE NEW ROCHELLE, NY
11236	CTS OF BERNE, INC. BERNE, IN
18324	SIGNETICS, INC. SUNNYVALE, CA
21793	RACAL INSTRUMENTS IRVINE, CA
27014	NATIONAL SEMI-CONDUCTOR CORP. SANTA CLARA, CA
52072	CIRCUIT ASSY. CORP. COSTA MESA, CA
52210	GETTING ENGRG. & MFG. CO. SPRING MILLS, PA
56289	SPRAGUE ELECTRIC CO. N. ADAMS, MA
61529	AROMAT CORP. CUPERTINO, CA
62559	SCHROFF, INC. WARWICK, RI
65832	AMERICAN RESEARCH & ENGINEERING ELGIN, IL
73138	BECKMAN INSTRUMENTS FULLERTON, CA
78189	ILLINOIS TOOL WORKS, INC. (SHAKEPROOF DIV.) ELGIN, IL
91637	DALE ELECTRONICS, INC. COLUMBUS, NE
95275	VITRAMON, INC. BRIDGEPORT, CT
OG8R9	HARTING ELECTRONICS HOFFMAN ESTATES, IL

Racal Instruments



SALES, APPLICATIONS AND SERVICE SUPPORT

RACAL INSTRUMENTS, INC.
4 Goodyear Street
Irvine, California 92718
Telephone: 1-800-722-3262
(714) 859-8999 (in CA)
Fax: (714) 859-2505

INTERNATIONAL SERVICE CENTERS

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Racal Systems Electronique S.A., 18 Avenue Dutartre, 78150 Le Chesnay, France. Tel:(1)3955 8888; Fax:(1)3955 6735; Tlx:697215
Racal Systems Elettronica srl, Strada 2 - Palazzo C4, 20090 Milanofiori Assago, Milano, Italy. Tel:(02) 5750.1796; Fax:(02) 5750.1828
Racal Elektronik System GmbH, Frankenforster Strasse 21, 51427 Bergisch Gladbach, Germany. Tel:02204 92220; Fax:02204 21491; Tlx:8878428

RACAL

REPAIR AND CALIBRATION REQUEST FORM

To allow us to better understand your repair requests, we suggest you use the following outline when calling and include a copy with your instrument to be sent to the Racal Repair Facility.

Model No._____ Serial No._____ Date_____

Company Name_____ P.O.No._____

Billing Address_____
City State Zip

Shipping Address_____
City State Zip

Technical Contact_____ Phone Number (___)_____

Purchasing Contact_____ Phone Number (___)_____

1. Describe, in detail, the problem and symptoms you are having. Please include all set up details, such as input/output levels, frequencies, waveform details, etc.

_____

_____

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2. If problem is occurring when unit is in remote, please list the program strings used and the controller type.

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3. Please give any additional information you feel would be beneficial in facilitating a faster repair time (i.e., modifications, etc.)

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4. Is calibration data required? Yes No (please circle one)

Call for RMA number <u>before</u> shipping:

Customer Service
(714) 859-8999 x231 OR (800) 722-3262

Ship instrument to:

Customer Service Department
Racal Instruments Inc.
4 Goodyear Street
Irvine, CA 92718

<u>Note</u>: We do not accept "collect" shipments.

MP MASTER
MA31079